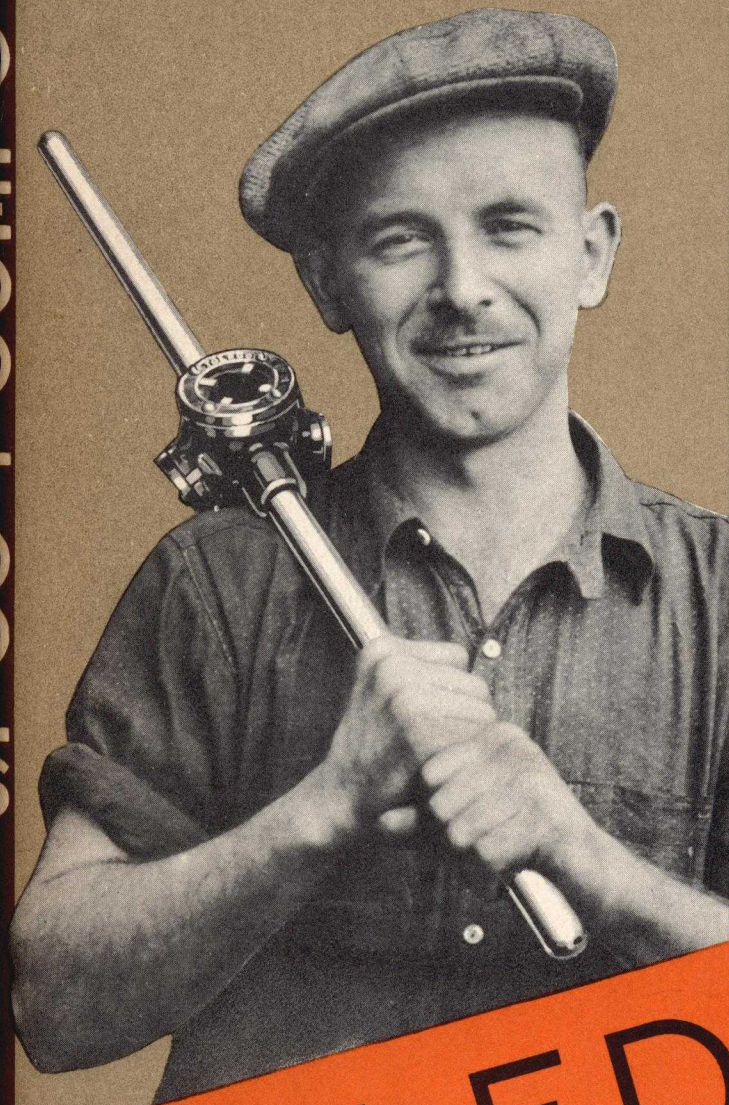


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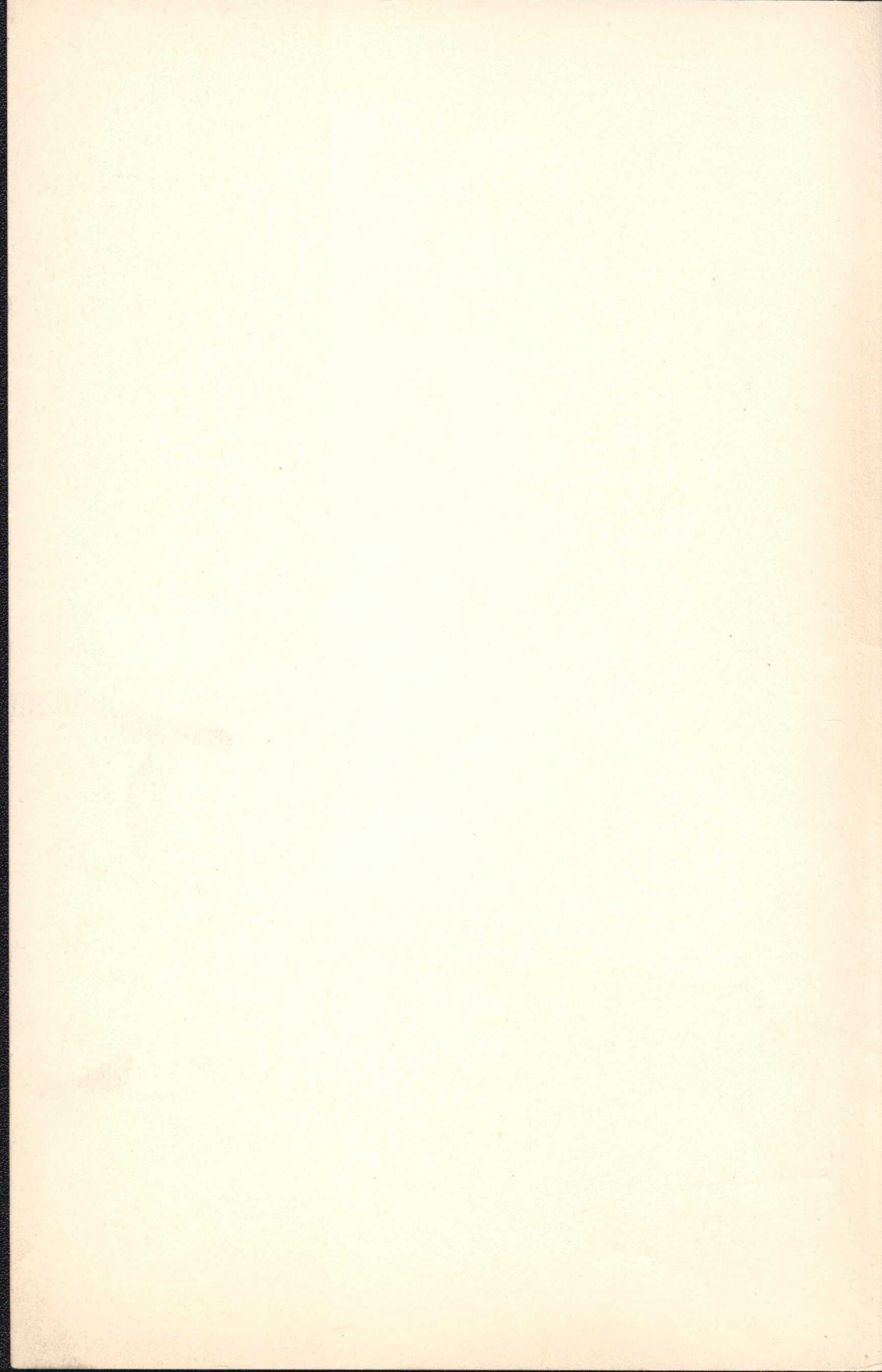


*This TRADE-MARK is on  
all genuine "TOLEDO"  
dies. Insist on it.*

**"TOLEDO'S"**  
— PIPE TOOLS OF SUPERIOR MERIT



*"TOLEDO" TRADE-MARK  
is a guarantee of quality*





TOLEDO



CATALOG

1911

PIPE THREADING MACHINES  
PIPE CUTTERS, REAMERS  
PIPE VISES, PORTABLE  
WORK BENCHES, DRILL  
TOOL, POWER DRIVES  
BOWEN PIPE MACHINES

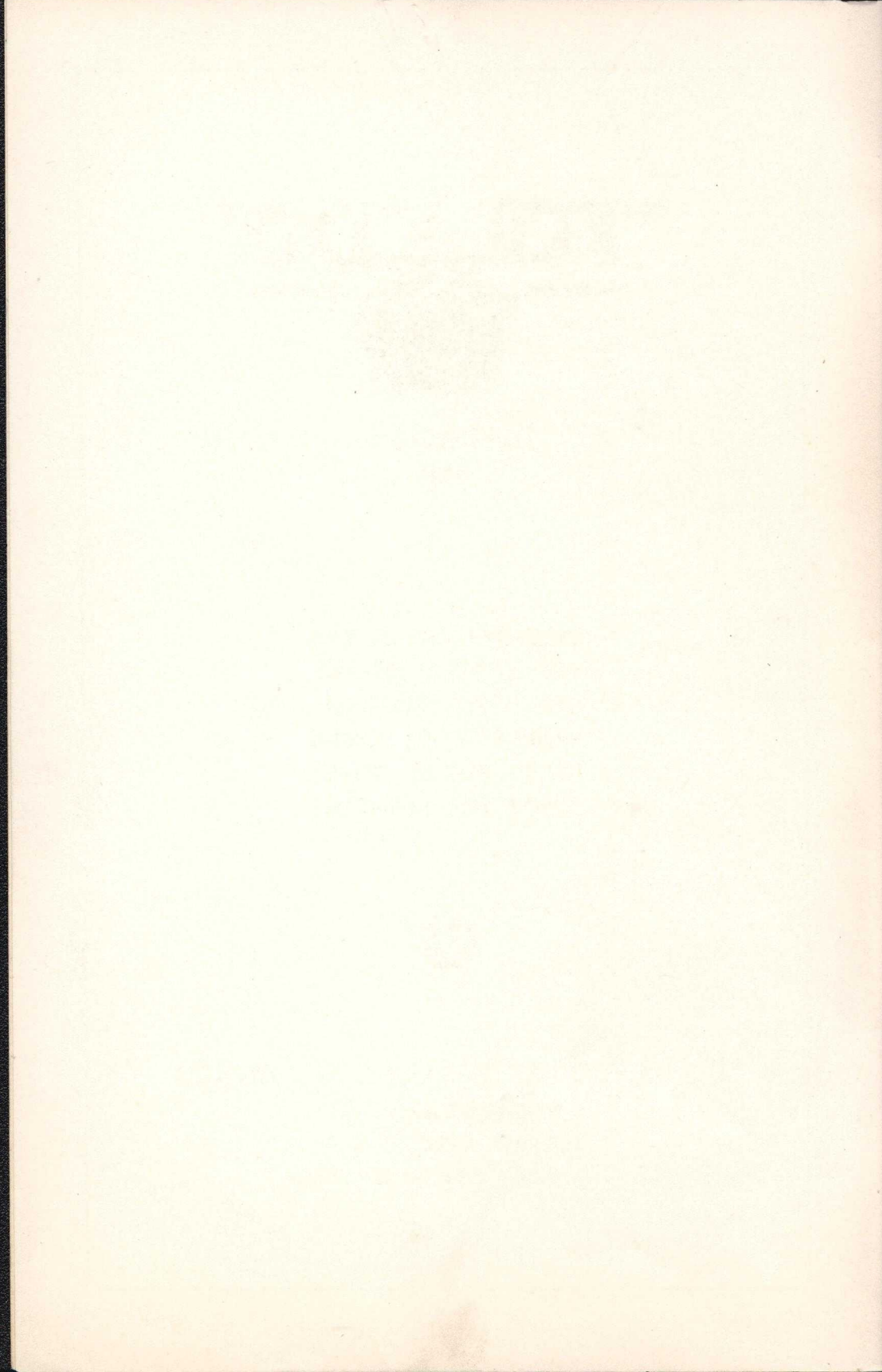


THE TOLEDO PIPE THREADING MACHINE CO.

1425-1445 Summit Street

TOLEDO, OHIO, U.S.A.

SOLE AGENTS: THE CHRYSLER CO.







CATALOG L

» 1931 «

PIPE THREADING DEVICES,  
PIPE CUTTERS, REAMER,  
PIPE VISES, PORTABLE  
WORK BENCHES, BORING  
TOOL, POWER DRIVES,  
POWER PIPE MACHINES

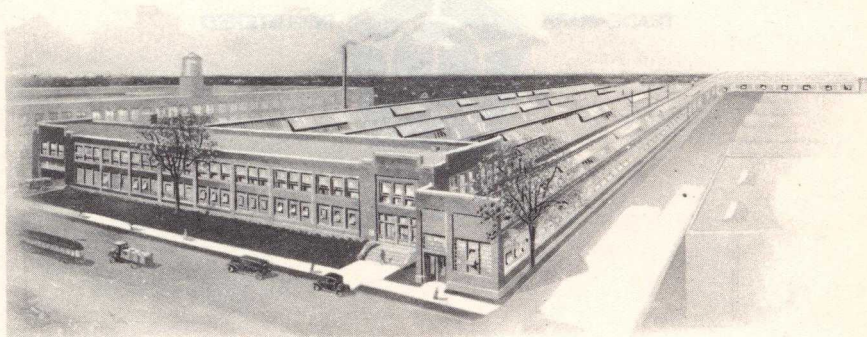


THE TOLEDO PIPE THREADING MACHINE CO.

1425-1445 Summit Street

TOLEDO, OHIO, U. S. A.

Cable Address: "THREADING-TOLEDO"



**T**HE constantly increasing demand for "TOLEDOS" has made necessary many additions to this big, modern, fire-proof, day-light factory where "TOLEDOS" are conceived, designed, built and shipped to all parts of the world.

Every known machine and device is utilized, assuring the most perfect product it is possible to build. Quality and designs practical for hard exacting service are matters of first consideration, all of which assure purchasers of "TOLEDO" trade-marked equipment maximum efficiency and satisfaction.





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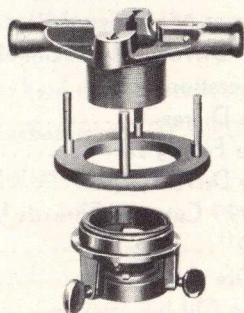
**WE** HAVE earnestly endeavored to make this new "TOLEDO" catalog, issued in the winter of 1930-1931 the finest and most complete catalog of pipe threading and cutting devices and kindred equipment that has ever been produced. We believe it is worthy of your careful attention for it covers the complete "TOLEDO" line which is recognized by piping contractors and operators throughout the world as the standard pipe tool equipment. You no doubt will find herein tools, machines, etc., that will meet your particular needs and will help to reduce operating expenses and lighten the work on your piping jobs as they are doing for thousands of owners today.

"TOLEDO" Pipe Threading Devices are classed in two groups, the "TOLEDO" receding die tools, which were the first of the so-called easy operating threaders and the non-receding die tools.

The non-receding tools referred to are the No. 00, No. 11, No. 30 and No. 31 illustrated on pages 10, 11 and 12, and the power threading machines shown on pages 42 to 49 inclusive. These tools and machines use segmental dies, mounted rigidly in die heads. The dies are given just the proper rake and clearance to do their work with the least amount of labor or power.

The group of receding die threading tools constitute the backbone of the "TOLEDO" line. These tools are unique as the receding die principle which minimizes friction, greatly reduces the work of threading pipe and is accomplished by exceedingly simple mechanical means. These tools are the No. 1, No. 1A, No. 1½R, No. 2, No. 2½, No. 3 and No. 4 shown on pages 14, 15, 18, 21, 23, 24 and 25. If you are not familiar with the mechanical principle of these tools, we set forth the following details accompanied by illustrations to make same clear.

Each tool consists of three main parts: The rear portion, or pipe holder, fastened tight to the pipe; a middle portion, or taper pin plate, which rotates on the pipe holder and carries a series of posts or pins, which posts or pins are machined with a tapering surface, corresponding to the standard pipe-thread taper; and a front portion, or die head hav-





ing a lead screw that meshes with a corresponding lead screw in the pipe holder.

In operation, the die head is rotated and carries around with it the taper pin plate and its series of taper pins. These taper pins project through corresponding holes in the die head. These holes are at the outer end of a series of slots that contain the die segments.



"TOLEDO" die segments differ from all preceding forms of pipe threading dies in that they only contain enough teeth on their cutting edge to form a thread. These die segments lie loose in their slots, the rear ends of same resting against the tapering surface of the taper pins heretofore referred to.

In operation, a "TOLEDO" tool is put on a pipe and the rear portion of the tool is bolted tight to the pipe. Then the die head is rotated in the customary manner. The lead screw heretofore referred to, pulls the die head onto the pipe, and as the die head travels on the pipe, it consequently travels along the series of taper pins. The dies, which are all the time cutting their thread, naturally force themselves back against the constantly receding surface of these taper pins. When a thread has been cut as long as is necessary, it is found that this receding action of the die segments has produced a thread of standard taper on the pipe.

The fact that the die segments only have a very few teeth, and are constantly relieving themselves from friction by backing away from the pipe as already outlined, makes the labor of threading pipe tremendously easier than the old method.

Thus it became possible for one man not only to thread 1" pipe, but 2", 4", 8" and finally 12" pipe.

As the years have gone by, other tools embodying the same principle but slightly different in construction have been produced. Thus our No. 0, No. 10 and No. 10A models have instead of taper pins, a die head case that contains a series of tapering steps, permitting these tools threading a number of sizes of pipe with one set of dies. Also our No. 25 tool, threading pipe from 2½" to 6" inclusive, utilizes an adjusting ratchet for each die holder, thus permitting this tool to thread seven sizes of pipe with one set of dies.

"TOLEDO" Pipe Cutters shown on pages 28, 29, 30 and 31 instead of squeezing the pipe apart, leaving a burr and rough edge, cut the pipe off, leaving a straight square-end cut without burr. We call your particular attention to the "TOLEDO" Automatic Pipe Cutters described on pages 28 and 29. These tools are very simple in construction, easy to operate and have set a new standard in cutting off 2" to 8" pipe. They are remarkable tools, and should have your careful consideration.

"TOLEDO" Power Drives described on pages 34 to 38 inclusive, have for many years been standard equipment with thousands of contractors. They will prove their ability to reduce operating expenses and increase the efficiency of the operator by converting hand operated threading tools and cutters into swift, highly efficient power machines. "TOLEDO" Power Drives are strictly portable, powerful beyond all needs and may be connected to the threading or cutting tool instantly.

The "TOLEDO" Flange Facing Machine described on page 39 is a remarkable labor saving device for facing off flanges or vanstone joints. It is a highly valuable machine for power plant contractors and engineers. The "TOLEDO" No. 999 and the "TOLEDO" No. 1000M Power Pipe Machines, described on pages 42 to 49, inclusive, are unusually efficient machines for cutting, threading and reaming  $\frac{1}{2}$ " to 2" pipe. The No. 999 is strictly portable and may be easily carried by two men. The No. 1000M is the semi-portable type machine. Both are very rapid, high-production pipe machines.

The "TOLEDO" Ratchet Pipe Reamer, described on page 51, you will note has many superior features to other reamers on the market. "TOLEDO" Pipe Vises described on page 52 and "TOLEDO" Portable Work Benches, described on pages 53 to 55, as well as the "TOLEDO" Ratchet Boring Tool shown on page 56. are all exceedingly desirable items of the "TOLEDO" line.





**T**HE name "TOLEDO" and this pentagon trade-mark appearing on pipe threading and cutting tools and dies, is our guarantee of the highest quality.

This trade-mark is recognized by users of pipe tools as representing the last word in pipe threaders and cutters. It has achieved this reputation after years of honest effort in building a perfect product, and appears only on genuine "TOLEDO" tools.

We suggest, therefore, when purchasing new pipe threading and cutting tools, you look for this pentagon trade-mark on the name plate and also on the box, and thus assure yourself of a genuine "TOLEDO" tool that will give you the maximum amount of service and satisfaction.



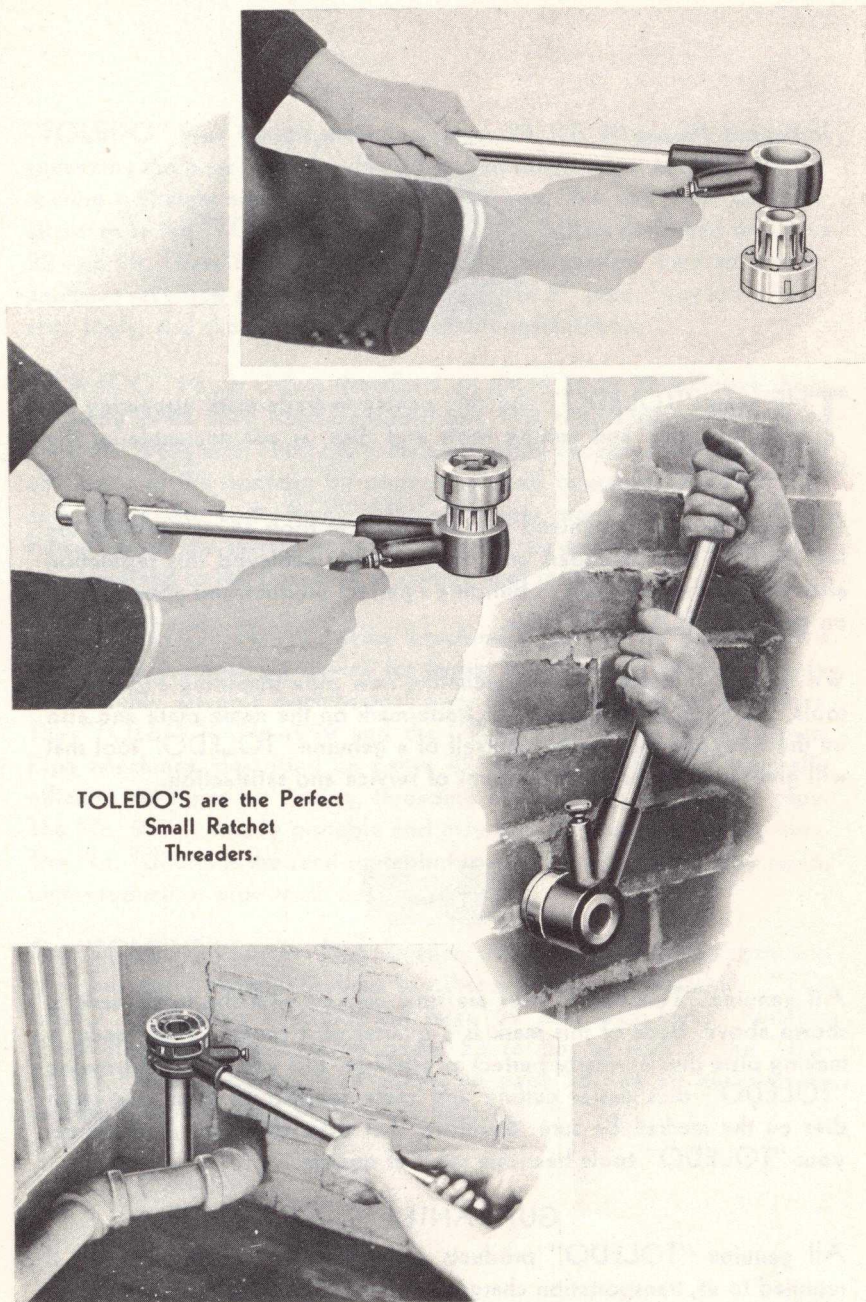
All genuine "TOLEDO" dies are now marked with the trade-mark as shown above. Back of this mark is a quarter of a century experience in making pipe dies as nearly perfect as possible, and you will find genuine "TOLEDO" dies easier cutting and more satisfactory than any other dies on the market. Be sure, therefore, that extra dies you purchase for your "TOLEDO" tools bear this mark of quality.

#### GUARANTEE

All genuine "TOLEDO" products are guaranteed against defects. If returned to us, transportation charges prepaid, and found to be defective, such defective material will be replaced or credited.



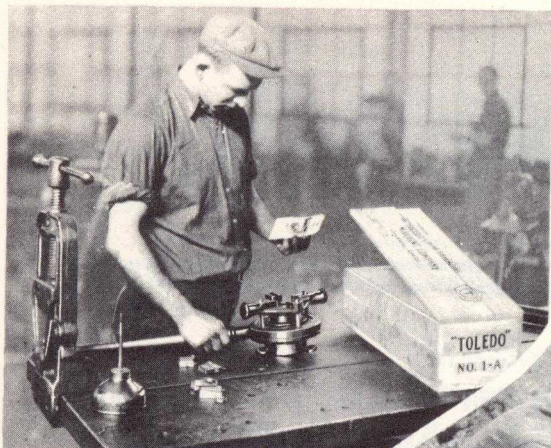




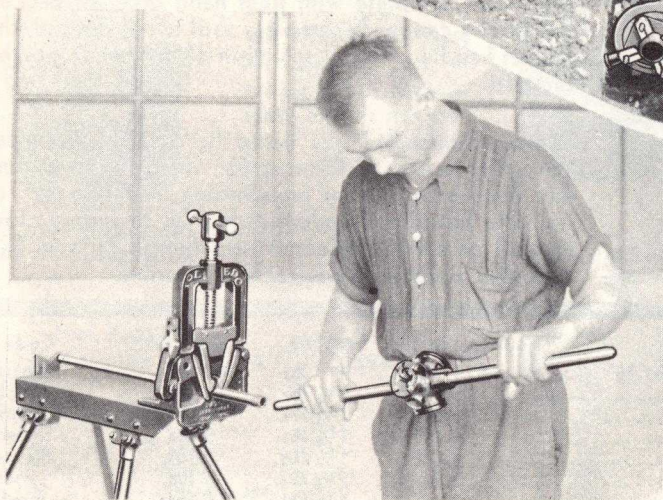
**TOLEDO'S are the Perfect  
Small Ratchet  
Threaders.**

The "TOLEDO" No. 00 is an excellent small, compact tool to thread small pipe. The two upper illustrations show the quick change of die heads. The view to the right shows the No. 00 with special inverted dies threading a short piece of pipe, tight against a brick wall. Below a "TOLEDO" No. 11 ( $\frac{1}{2}$ " to  $1\frac{1}{4}$ " pipe threader is threading  $1\frac{1}{4}$ " pipe in a corner between wall and radiator. Both the No. 00 and No. 11 are ideal tools for close corners.



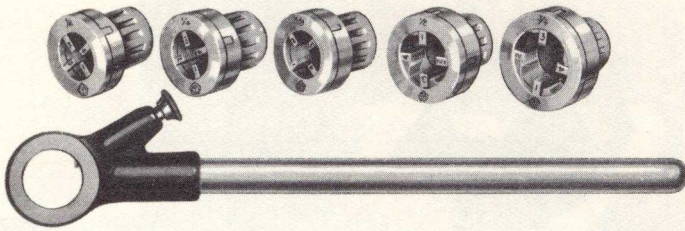


"TOLEDO" Tools  
are  
Simple and Easy  
to  
Operate



*In the upper illustration, the operator is reading the few simple operating instructions. There is nothing at all complicated in "TOLEDO'S." In the center, a 2" pipe down in the trench is being threaded easily by a workman operating the ratchet handle of his "TOLEDO" No. 1A tool with his right hand, and with his left holding the pipe steady with a pair of tongs. Below a "TOLEDO" 3-Way tool has just completed cutting a long running thread on a  $\frac{3}{4}$ " conduit. "TOLEDO" 3-Way tools with special electric conduit dies do this work perfectly.*



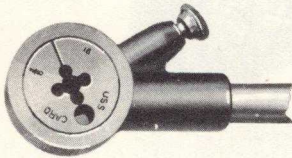


**"Toledo" Ratchet Pipe Threading Device No. 00**  
CAPACITY  $\frac{1}{8}$ " to  $\frac{3}{4}$ " PIPE, INCLUSIVE

This tool is very desirable for threading small pipe. It is the lightest and most compact ratchet threader on the market. Easily carried in the pocket as it is but  $16\frac{1}{2}$ " long, and will thread pipe in corners where other tools are useless.

It cuts standard threads of full taper with a few easy strokes of the ratchet handle. The die heads are instantly changed from one size to another, simply by pulling the ratchet pawl knob and allowing one head to drop out and another in. The die segments can be removed and reground when dull, or replaced at small expense without purchasing complete new heads.

The complete tool consists of the ratchet handle and  $\frac{1}{8}$ ",  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{3}{4}$ " die heads complete with right hand dies, all packed in a strong carton. If complete tool is not desired, the ratchet handle and any selection of die heads may be ordered.



*Equipped with bolt dies, the No. 00 is an excellent tool to thread bolts, hanger rods, etc.*

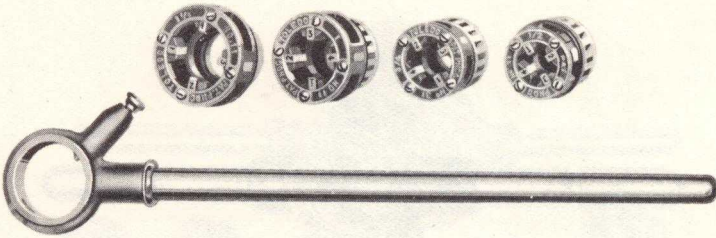
We can furnish  $\frac{3}{8}$ ",  $\frac{1}{2}$ ", and  $\frac{3}{4}$ " special die heads for cutting left hand threads,  $\frac{3}{4}$ " die head for cutting fine threads on Boston brass tubing, and also  $\frac{3}{8}$ " to  $\frac{3}{4}$ " die heads with inverted dies for threading close to wall or ceiling. We can also furnish  $\frac{1}{4}$ " to  $\frac{7}{8}$ " bolt dies and die heads on special order.

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 00, Complete $\frac{1}{8}$ " to $\frac{3}{4}$ ".....	\$19.00	9 lbs.	10 lbs.	Abaiser
Ratchet.....	3.00	$2\frac{1}{4}$ lbs.	3 lbs.	Abator
$\frac{1}{8}$ " Die Head with Dies.....	3.00	$1\frac{1}{4}$ lbs.	2 lbs.	Abseond
$\frac{1}{4}$ " Die Head with Dies.....	3.00	$1\frac{1}{4}$ lbs.	2 lbs.	Acacia
$\frac{3}{8}$ " Die Head with Dies.....	3.00	$1\frac{1}{4}$ lbs.	2 lbs.	Accede
$\frac{1}{2}$ " Die Head with Dies.....	3.50	$1\frac{1}{2}$ lbs.	2 lbs.	Actor
$\frac{3}{4}$ " Die Head with Dies.....	3.50	$1\frac{1}{2}$ lbs.	2 lbs.	Addict
Dies only, each size (4 segments).....	2.00	2 oz.	2 oz.	*
Special Die Heads, with U. S. S. Bolt Dies, $\frac{1}{4}$ " to $\frac{7}{8}$ " Each.....	3.00 Net	$1\frac{1}{2}$ lbs.	2 lbs.	.....

\*See code page 86.

Complete list of repair parts for No. 00 on page 59. Prices apply for American standard tools only. other tools will be quoted on specially as occasion arises.





## "Toledo" Ratchet Pipe Threading Device No. 11

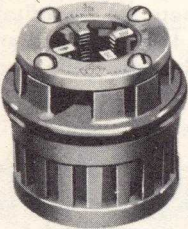
CAPACITY  $\frac{1}{2}$ " to  $1\frac{1}{4}$ " PIPE, INCLUSIVE

This ratchet tool is similar in design to the No. 00 except that it is somewhat larger. It is very light and compact and reaches the most difficult corner job. It threads pipe very easily and produces perfect tapered threads.

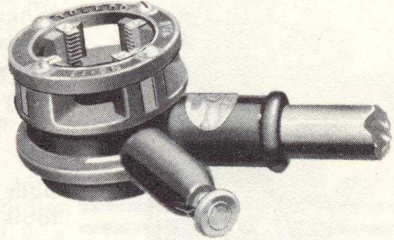
The die heads are instantly changed by pulling the ratchet pawl knob. The die segments can be removed when dull and be easily reground or replaced at small expense without having to order complete new die heads.

This tool is especially adapted for the electrician and when fitted with the special dies for producing the straight lock-nut threads on electric conduit, it is an excellent tool for this work.

The complete tool consists of the ratchet handle,  $\frac{1}{2}$ ",  $\frac{3}{4}$ ",  $1$ " and  $1\frac{1}{4}$ " right hand die heads with dies, all packed in a strong carton. If complete tool is not desired any combination of die heads may be ordered. A  $\frac{3}{8}$ " die head with dies can be furnished if ordered special.



$\frac{3}{8}$ " Die head and dies can be furnished on special order.



The No. 11 is strongly built and has ample chip clearance.

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 11 Complete $\frac{1}{2}$ " to $1\frac{1}{4}$ ".....	\$24.00	$10\frac{1}{2}$ lbs.	12 lbs.	Acerb
Ratchet.....	4.00	$3\frac{1}{4}$ lbs.	4 lbs.	Accost
$\frac{1}{2}$ " Die Head with Dies.....	5.00	$1\frac{3}{4}$ lbs.	2 lbs.	Accrue
$\frac{3}{4}$ " Die Head with Dies.....	5.00	$1\frac{3}{4}$ lbs.	2 lbs.	Achime
$1$ " Die Head with Dies.....	5.00	2 lbs.	2 lbs.	Acquit
$1\frac{1}{4}$ " Die Head with Dies.....	5.00	2 lbs.	2 lbs.	Acid
$\frac{1}{2}$ " or $\frac{3}{4}$ " Dies only, per set.....	2.00	2 oz.	2 oz.	*
$1$ " or $1\frac{1}{4}$ " Dies only, per set.....	2.50	4 oz.	4 oz.	*
$\frac{3}{8}$ " Die Head with Dies.....	5.00	$1\frac{3}{4}$ lbs.	2 lbs.	Acknow
$\frac{3}{8}$ " Dies only, per set.....	2.00	2 oz.	2 oz.	Abear

\*See code page 86.

Complete list of repair parts for No. 11 on page 60. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.





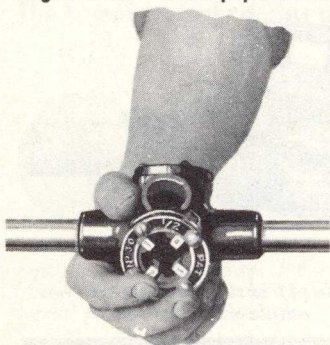
### "Toledo" 3-Way Pipe Threading Devices

No. 30—CAPACITY  $\frac{3}{8}$ " to  $\frac{3}{4}$ " PIPE, INCLUSIVE

No. 31—CAPACITY  $\frac{1}{2}$ " to 1" PIPE, INCLUSIVE

The lightest, the smallest and easiest to operate of all tools of this character. No. 30 weighs only  $4\frac{3}{4}$  pounds. No. 31 weighs but 7 pounds. The tool bodies are about the size of a baseball, each die head being "on center" and the handles projecting from either side, thus producing a perfectly balanced tool.

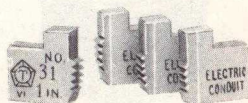
"TOLEDO" 3-Way tools with the patented design of the tool body, permits the use of segmental dies possessing the "TOLEDO" easy cutting quality. These die segments are removable and can be reground or replaced with new ones at slight cost. Brass pipe is threaded perfectly with either the No. 30 or No. 31.



"TOLEDO" 3-Ways are so small and compact they are easily held in the palm of the hand.

When assembled ready for use there are no adjustments necessary, no loose parts. The die heads are always ready to cut standard threads. The tool body is designed to readily clear itself of chips and will not become clogged with dirt.

Both the No. 30 and No. 31 tools can be furnished at no extra cost, for electricians equipped with special dies that produce straight, lock-nut threads so desirable for the perfect conduit job.



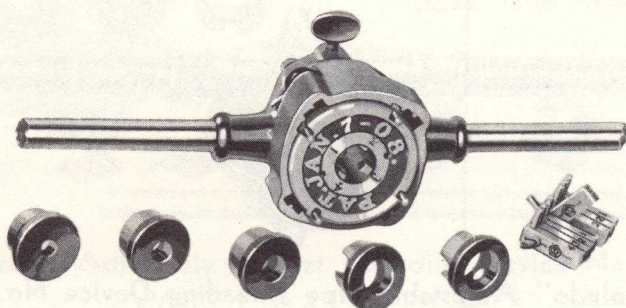
Each tool is packed complete with two handles in a strong carton.

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 30, Complete $\frac{3}{8}$ " to $\frac{3}{4}$ ".....	\$15.00	4 $\frac{3}{4}$ lbs.	5 $\frac{3}{4}$ lbs.	Acture
No. 31, Complete $\frac{1}{2}$ " to 1".....	18.00	7 lbs.	8 $\frac{1}{4}$ lbs.	Adam
1 Set $\frac{3}{8}$ " Dies No. 30.....	2.00	2 oz.	2 oz.	Abear
1 Set $\frac{1}{2}$ " Dies No. 30 or No. 31....	2.00	2 oz.	2 oz.	Aberrant
1 Set $\frac{3}{4}$ " Dies No. 30 or No. 31....	2.00	2 oz.	2 oz.	Abet
1 Set 1" Dies No. 31.....	2.50	4 oz.	4 oz.	Addle

Complete list of repair parts for No. 30 and No. 31 on page 61. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.







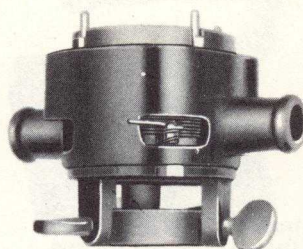
**"Toledo" Adjustable Pipe Threading Device No. 0**  
CAPACITY  $\frac{1}{8}$ " to  $\frac{3}{4}$ " PIPE, INCLUSIVE

This little "TOLEDO" weighs but eight pounds, and the total length, from tip to tip of handles, is 24".

It differs from every other tool of its capacity in that it embodies the celebrated "TOLEDO" receding die feature for threading  $\frac{1}{2}$ " and  $\frac{3}{4}$ " pipe and producing perfectly tapered threads. It is the easiest operating tool for these sizes. A locking pin, shown in the illustration below, instantly locks the die head and pipe holder and is used only when threading  $\frac{1}{8}$ ",  $\frac{1}{4}$ " and  $\frac{3}{8}$ " pipe. The dies are changed from one size to another simply by slipping them in the proper steps of the die head case. The adjustment is easily and quickly made and it is positive. One set of dies is used for threading  $\frac{1}{8}$ ", a second set for  $\frac{1}{4}$ " and  $\frac{3}{8}$ " and a third set for  $\frac{1}{2}$ " and  $\frac{3}{4}$ " pipe. The tool is adjustable to cut over or under size threads as well as standard threads.

The complete tool consists of a tool body, two handles, complete set of  $\frac{1}{8}$ " to  $\frac{3}{4}$ " right hand dies and bushings, an instruction card, all packed in a wood box.

Left hand dies can be furnished on special order, but it requires a separate set for each size pipe.



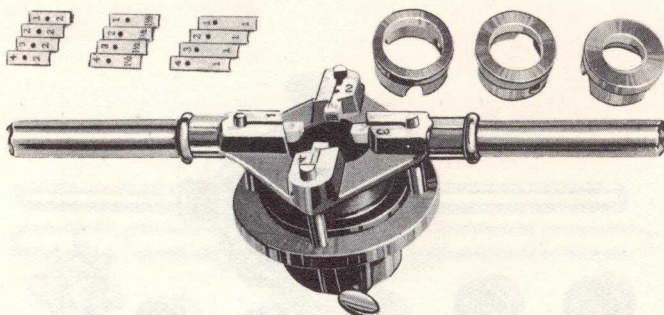
*Dies projecting above case set for cutting undersize thread.  
Note locking pin used when threading  $\frac{1}{8}$ ",  $\frac{1}{4}$ " and  $\frac{3}{8}$ ".*

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 0, Complete $\frac{1}{8}$ " to $\frac{3}{4}$ " .....	\$16.00	8 lbs.	11 lbs.	Abacus
1 Complete Set R. H. Dies .....	7.50	13 oz.	1 lb.	Abdomen
1 Set $\frac{1}{8}$ " R. H. Dies .....	2.50	5 oz.	1 lb.	Abdalla
1 Set $\frac{1}{4}$ " x $\frac{3}{8}$ " R. H. Dies .....	2.50	4 oz.	1 lb.	Abdal
1 Set $\frac{1}{2}$ " x $\frac{3}{4}$ " R. H. Dies .....	2.50	4 oz.	1 lb.	Abdicate
1 Complete Set L. H. Dies .....	12.50	1 $\frac{1}{4}$ lbs.	2 lbs.	Abreast
1 Set Left Hand, each size (4 segments)	2.50	4 oz.	1 lb.	*

\*See code page 86.

Complete list of repair parts for No. 0 on page 62. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.



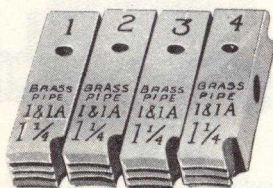


## "Toledo" Adjustable Pipe Threading Device No. 1

CAPACITY 1" to 2" PIPE, INCLUSIVE

This model was the first of the so-called easy operating threaders and for years has been considered by users as the "last word" in 1" to 2" threading tools. It has been the standard by which all other pipe threading devices have been compared, and, with the exception of the No. 1A Ratchet Tool shown on the next page, nothing has ever taken its place.

It utilizes the "TOLEDO" receding die principle, described on page 5, and threads pipe so easily that a boy can operate it. It may be instantly adjusted for cutting over and under size as well as standard threads and produces perfectly true tapered threads at all times. It is strong and durable, and like all genuine "TOLEDO" tools, will stand years of service.



*Brass pipe is threaded perfectly with these dies and the regular No. 1 or No. 1A.*

Brass pipe dies that will thread 1" to 2" brass pipe or special dies for threading wrought iron pipe perfectly with either this regular No. 1 or the No. 1A ratchet model can be furnished on special order. Special tools are not necessary for this work.

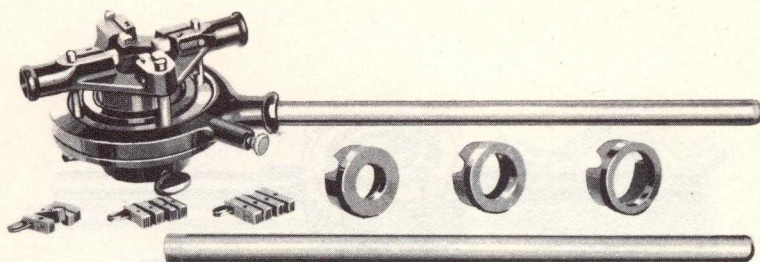
The complete tool consists of the tool body, two handles, complete set of 1" to 2" right hand dies and bushings, an instruction card, all packed in a wood box.

It can also be furnished at a slightly higher net price (reversed in all its parts) for cutting left hand threads—neither tool will do both.

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 1, Complete 1" to 2" .....	\$24.00	19 lbs.	23 lbs.	Abandon
1 Complete Set R. H. Dies .....	10.00	23 oz.	2 lbs.	Absolute
1 Set 1" R. H. Dies .....	2.50	7 oz.	1 lb.	Abide
1 Set 1 1/4" R. H. Dies .....	2.50	6 oz.	1 lb.	Ability
1 Set 1 1/2" R. H. Dies .....	2.50	6 oz.	1 lb.	Above
1 Set 2" R. H. Dies .....	2.50	5 oz.	1 lb.	Abrogate
1 Single Set only 1", 1 1/4", 1 1/2" or 2"				
Dies for Wrought Iron Pipe .....	1.00 Net	6 oz.	1 lb.	.....
1 Single Set only 1", 1 1/4", 1 1/2" or 2" Brass Pipe Dies .....	1.00 Net	6 oz.	1 lb.	.....

*Complete list of repair parts for No. 1 Tool on page 63. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.*





## "Toledo" Adjustable Ratchet Threading Device No. 1A

CAPACITY 1" to 2" PIPE, INCLUSIVE

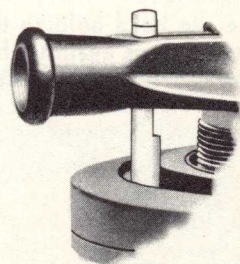
This model is like the No. 1 except equipped with a ratchet which makes it easy to thread pipe in restricted places. It may be used with two handles as an ordinary die stock when desired. It is by all odds the easiest operating 1" to 2" pipe threader.

The complete tool consists of the tool body, two handles, complete set of 1" to 2" right hand dies and bushings, an instruction card, all packed in a wood box.

It can also be furnished at a slightly higher net price (reversed in all its parts) for cutting left hand threads—neither tool will do both.

It is also made up specially for threading electrical conduit, producing a straight thread with only a short taper at the bottom. An excellent tool for the electrician.

It can also be furnished for cutting special threads on either  $1\frac{7}{16}$ " or  $1\frac{1}{2}$ " locomotive superheater tubes. Brass pipe dies that will thread 1" to 2" brass pipe or special dies for threading wrought iron pipe perfectly with either the regular No. 1 or No. 1A models can be supplied on special order. Special tools are not necessary for this work.

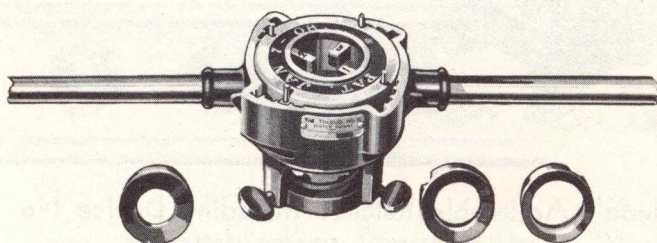


*Taper pins permit adjustment for any depth threads.*

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 1A, Complete 1" to 2".....	\$30.00	22 lbs.	28 lbs.	Abaft
No. 1A, Special Conduit Device, complete.....	35.00	22 lbs.	28 lbs.	Abrupt
No. 1A, Special Superheater Device, complete.....	30.00	20 lbs.	26 lbs.	Super
1 Complete Set R. H. Dies.....	10.00	23 oz.	2 lbs.	Absolute
1 Set 1" R. H. Dies.....	2.50	7 oz.	1 lb.	Abide
1 Set 1 $\frac{1}{4}$ " R. H. Dies.....	2.50	6 oz.	1 lb.	Ability
1 Set 1 $\frac{1}{2}$ " R. H. Dies.....	2.50	6 oz.	1 lb.	Above
1 Set 2" R. H. Dies.....	2.50	5 oz.	1 lb.	Abrogate
1 Single Set only 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ " or 2" Dies for Wrought Iron Pipe ....	1.00 Net	6 oz.	1 lb.	.....
1 Single Set only 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ " or 2" Brass Pipe Dies.....	1.00 Net	6 oz.	1 lb.	.....

Complete list of repair parts for No. 1A Tool on page 64. Prices apply for American standard tools only. other tools will be quoted on specially as occasion arises.





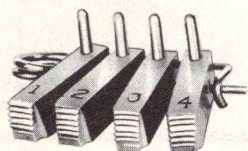
## "Toledo" Adjustable Pipe Threading Device No. 10

CAPACITY 1" to 2" PIPE, INCLUSIVE

This model is designed for the operator who desires a tool using one set of dies to thread several sizes of pipe and for a tool of this type threads pipe easily. It is a receding die type of tool and has but very few working parts.

The die head holding the die segments is surrounded by a step case having four sets of steps against which the dies rest. When threading pipe, the dies move down these steps gradually receding and thus producing a long thread of standard taper, that insures tight joints.

This tool is adjustable for cutting over or under size threads as well as standard, and is one of the most popular tools of this character and capacity on the market. It is strongly built and very durable.



"TOLEDO" No. 10 and No. 10A dies made of high speed steel cut easily and smoothly.

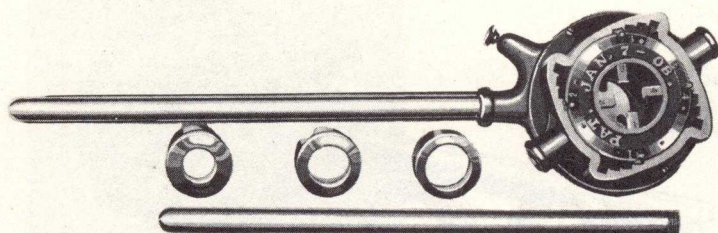
The complete tool consists of the tool body with one set of 1" to 2" right hand dies, one complete set of bushings and two handles, an instruction card, all packed in a wood box.

It is possible to cut left hand threads with this tool, and left hand dies can be furnished on special order. When cutting left hand threads, however it requires a separate set of dies for each size of pipe.

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 10, Complete 1" to 2".....	\$28.00	19 lbs.	25 lbs.	Hail
1 Set R. H. Dies (1" to 2").....	2.75	11 oz.	1 lb.	Hector
1 Complete Set L. H. Dies.....	11.00	2¾ lbs.	3 lb.	Herb
1 Set 1" L. H. Dies.....	2.75	12 oz.	1 lb.	Hedge
1 Set 1¼" L. H. Dies.....	2.75	11 oz.	1 lb.	Heel
1 Set 1½" L. H. Dies.....	2.75	10 oz.	1 lb.	Helmet
1 Set 2" L. H. Dies.....	2.75	9 oz.	1 lb.	Hemlock

Complete list of repair parts for No. 10 Tool on page 65. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.





## "Toledo" Adjustable Ratchet Threading Device No. 10A

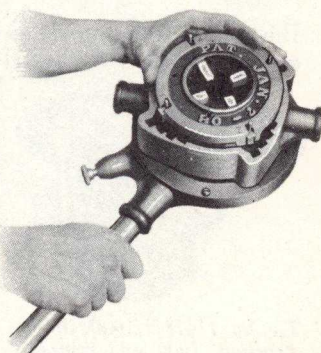
CAPACITY 1" to 2" PIPE, INCLUSIVE

Is like the No. 10 model, except that it is equipped with a ratchet, thus making it desirable for cutting threads in trenches or restricted places. It is strongly built and like the No. 10 is capable of cutting under size or over size as well as standard threads.

The right hand dies used in the No. 10 and No. 10A tools are made of high speed steel and will give an astonishing amount of service. Like all "TOLEDO" dies, they can be easily re-sharpened when they become dull. They are very accurately hobbled and ground with the proper clearance to assure very easy cutting and smooth perfect threads.

The complete tool consists of the tool body, one set of 1" to 2" right hand dies, one complete set of bushings, two handles, and an instruction card, all packed in a wood box.

Left hand dies can be furnished on special order, but it requires a separate set for each size pipe. Since left hand dies are not subject to such constant usage as right hand dies, they are not made of high speed steel.

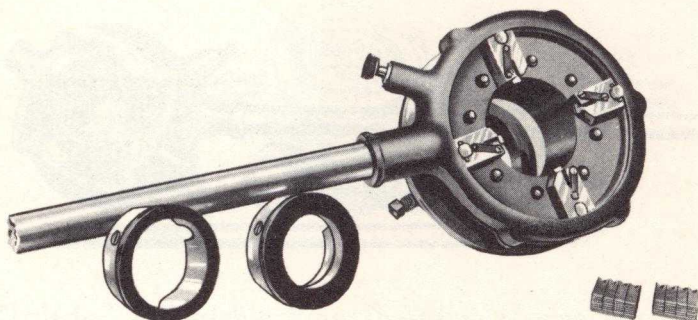


*Tapered steps permit quick, positive die change.*

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 10A, Complete, 1" to 2".....	\$34.00	26 lbs.	32 lbs.	Halter
1 Set R. H. Dies 1" to 2".....	2.75	11 oz.	1 lb.	Hector
1 Complete Set L. H. Dies.....	11.00	2¾ lbs.	3 lbs.	Herb
1 Set 1" L. H. Dies.....	2.75	12 oz.	1 lb.	Hedge
1 Set 1¼" L. H. Dies.....	2.75	11 oz.	1 lb.	Heel
1 Set 1½" L. H. Dies.....	2.75	10 oz.	1 lb.	Helmet
1 Set 2" L. H. Dies.....	2.75	9 oz.	1 lb.	Hemlock

Complete list of repair parts for No. 10A Tool on page 65. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.



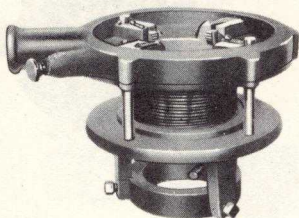


## "Toledo" Adjustable Ratchet Threading Device No. 1 1/2 R

CAPACITY 2 1/2" and 3" PIPE

This is a ratchet operated mechanism, light and compact, weighing about 37 lbs., for threading 2 1/2" and 3" pipe. It is direct acting having no gearing, but as it utilizes the "TOLEDO" receding die principle it operates easier than other direct acting tools on these sizes.

This model is also made as a special tool for threading oil well tubing of 2", 2 1/2" and 3" sizes. This special model cuts threads 11 1/2 turns to the inch, and must not be confused with the regular tool that cuts standard pipe threads of 8 turns to the inch. In ordering it is necessary to state whether the standard pipe thread tool or the special oil well tubing tool is desired. Unless otherwise specified the 8-pitch or standard thread tool will be shipped.



*The No. 1 1/2 R is simple in construction, light and compact.*

The complete outfit consists of the tool body; a two-piece handle; dies for each size within its capacity; necessary bushing or bushings; a set screw wrench; and an instruction card; all packed in wood box.

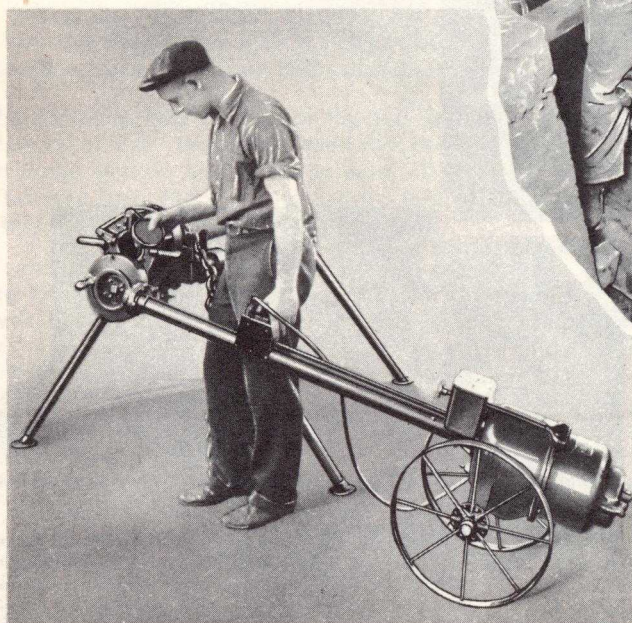
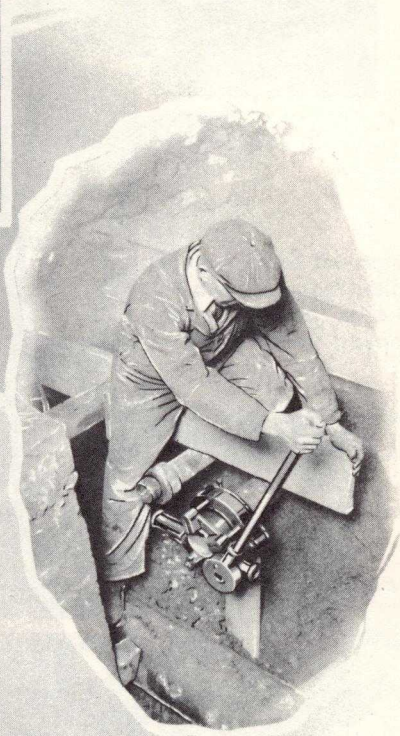
Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 1 1/2 R, Complete, 2 1/2", 3", Standard 8th	\$45.00	37 lbs.	45 lbs.	Abash
No. 1 1/2 R, Complete, 2" to 3", Special 11 1/2th	50.00	39 lbs.	47 lbs.	Abase
1 Complete Set Dies, Standard, 8 thread.....	8.00	1 lb.	2 lbs.	Air
1 Set 2 1/2" Dies, Standard, 8 thread.....	4.00	9 oz.	1 lb.	Absurd
1 Set 3" Dies, Standard, 8 thread.....	4.00	7 oz.	1 lb.	Abundant
1 Complete Set Dies, Special, 11 1/2 thread..	12.00	1 1/2 lbs.	2 lbs.	Abstruse
1 Set 2" Dies, Special, 11 1/2 thread.....	4.00	10 oz.	1 lb.	Absolve
1 Set 2 1/2" Dies, Special, 11 1/2 thread.....	4.00	9 oz.	1 lb.	Abstain
1 Set 3" Dies, Special, 11 1/2 thread.....	4.00	7 oz.	1 lb.	Abstinent

Complete list of repair parts for No. 1 1/2 R Tool on page 66. Tools other than above will be quoted on specially as occasion arises.



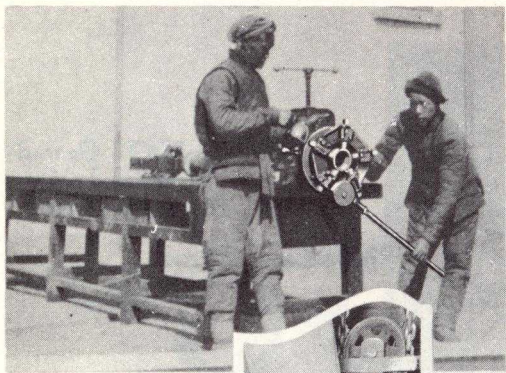


**"TOLEDO" Geared  
Threading Tools  
Meet Every Need**

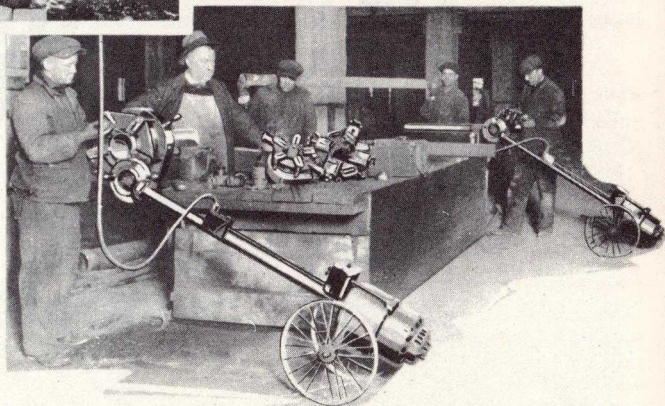
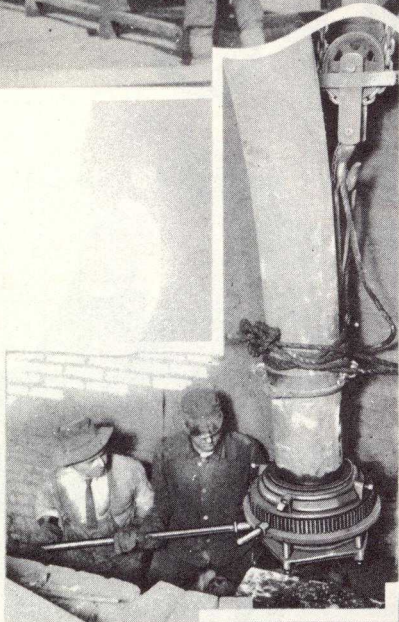


*The operator in the upper left illustration is easily lifting the light, compact, "TOLEDO" No. 2 Tool from the completed thread. In the right center he is threading 4" pipe down in the trench with a No. 2 Tool, and in the lower left a No. 2 is operated by a "TOLEDO" Power Drive making it a highly efficient power machine.*



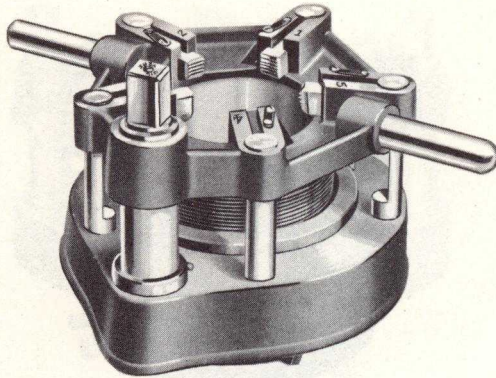


"TOLEDO" Geared Tools  
Operate Anywhere.



*Even Chinese Coolies, in the upper left hand illustration, readily understand the correct operation of a "TOLEDO". At the right, the operator is cutting a 4" thread in a close corner with a "TOLEDO" No. 2. In the center, a 10' Steam Header is being threaded upside down, and right in position with a "TOLEDO" No. 4. The lower illustration shows "TOLEDO" geared tools operated by "TOLEDO" Power Drives on a big New York contract.*





## "Toledo" Geared Adjustable Threading Device No. 2

CAPACITY 2½" to 4" PIPE, INCLUSIVE

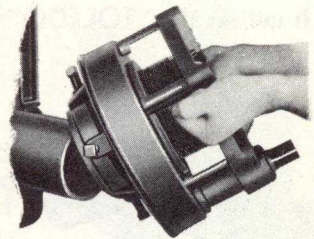
This model probably, more than any other tool we make, has established the reputation of "TOLEDO" tools as being the most practical, most durable, most easily operated and satisfactory threading device in use today. Its net weight, as it is picked up to be put on the pipe, is but 57 pounds. It is nearly thirty pounds lighter than any other tool of this capacity.

It utilizes the "TOLEDO" receding die principle, described on page 5, and even a boy can thread pipe with it and handle it easily. It can be put on the pipe in most any place or position and a perfect tapered thread produced.

The complete tool consists of the tool body, complete set of 2½" to 4" right hand dies and bushings, set screw wrench, an instruction card, all packed in a wooden box, and a ratchet handle shipped separately.

It can also be furnished on special order for producing straight, running conduit threads for electrical work. Quotation on request.

The productive capacity of the No. 2 can be increased many times by operating it with a "TOLEDO" Power Drive, described on pages 34 to 38 inclusive.

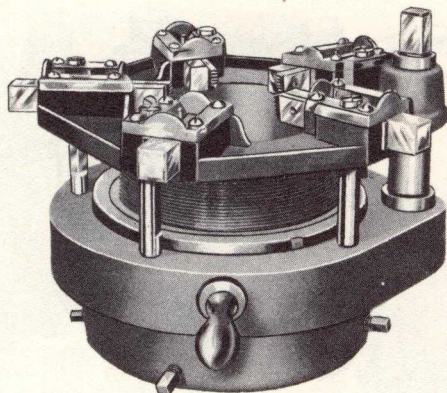


*It is light and easy for man or boy to handle. The lightest 2½" to 4" pipe threader.*

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 2, Complete, 2½" to 4".....	\$100.00	84 lbs.	95 lbs.	Abate
1 Complete Set Dies, 2½" to 4".....	32.00	7½ lbs.	8 lbs.	Action
1 Set 2½" Dies.....	8.00	2½ lbs.	3 lbs.	Abuse
1 Set 3" Dies.....	8.00	2 lbs.	3 lbs.	Accord
1 Set 3½" Dies.....	8.00	1¾ lbs.	2 lbs.	Acme
1 Set 4" Dies.....	8.00	1⅝ lbs.	2 lbs.	Acorn

Complete list of repair parts for No. 2 Tool on page 67. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.





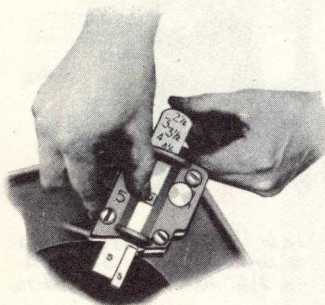
## "Toledo" Geared Adjustable Threading Device No. 25

CAPACITY 2½" to 6" PIPE, INCLUSIVE

This tool differs from other "TOLEDO" geared devices, as it threads the seven sizes of pipe within its capacity with one set of dies.

The adjusting from one size to another is positive, and is accomplished by pulling back out of the way a pawl in each die holder, and then pushing in or out each die holder until same registers for the size it is desired to thread. (See the illustration below).

It utilizes the "TOLEDO" receding die principle, and threads pipe very easily.



*Dies are changed instantly, positively in the "TOLEDO" No. 25.*

An extra set of dies is furnished, so that when one set becomes dull and needs to be resharpened, there will be a sharp set on hand to take its place.

Special long-barreled bushings are furnished with this tool, making it very easy to center on the pipe.

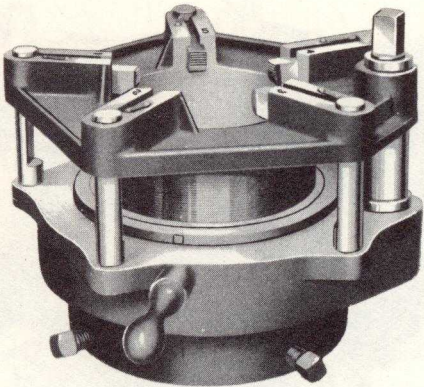
The complete tool consists of the tool body, two sets of dies, complete set of bushings, set screw wrench, and instruction card, all packed in a wood box, and a ratchet handle shipped separately.

The productive capacity of this tool can be increased many times by operating it with a "TOLEDO" Power Drive, described on pages 34 to 38 inclusive.

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 25, Complete, 2½" to 6".....	\$230.00	200 lbs.	226 lbs.	Hamlet
1 Set Dies, 2½" to 6".....	8.00	8 oz.	1 lb.	Hemp

Complete list of repair parts for No. 25 Tool on page 68. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.





**"Toledo" Geared Adjustable Threading Device No. 2 1/2**  
CAPACITY 4 1/2" to 6" PIPE, INCLUSIVE

This tool has been developed primarily for those who already own a No. 2 tool and find it necessary to thread up to 6" pipe. It possesses all the desirable qualities of the No. 2, No. 3 and No. 4 models, being of the same general character as these tools.

It utilizes a separate set of dies for each size pipe, and will cut perfect threads on either wrought iron or steel pipe.

One man can easily operate the tool on any size within its capacity. It utilizes the same dies as the No. 3 described on the following page.

Special 4" dies and 4" bushing may be furnished on special order.

It is the lightest 6" threader made and weighs but 136 pounds as it is picked up to be put on the pipe. Like the No. 25 it is equipped with special long barreled bushings, to facilitate centering the tool on the pipe. The complete tool consists of tool body, complete set of 4 1/2" to 6" right hand dies, bushings, set screw wrench, an instruction card, all packed in a wood box, and a ratchet handle shipped separately.

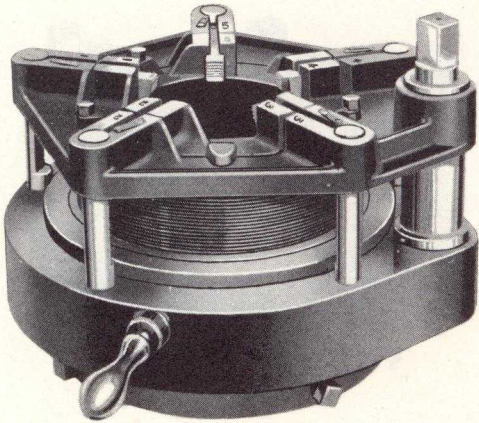


*All "TOLEDO" Geared tools have driving pinions with oil reservoir assuring positive lubrication.*

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 2 1/2, Complete, 4 1/2" to 6".....	\$200.00	155 lbs.	187 lbs.	Conjure
1 Complete Set Dies, 4 1/2" to 6"....	36.00	11 1/2 lbs.	12 lbs.	Connive
1 Set 4 1/2" Dies.....	12.00	4 1/8 lbs.	5 lbs.	Adapt
1 Set 5" Dies.....	12.00	4 lbs.	5 lbs.	Adequate
1 Set 6" Dies.....	12.00	3 1/2 lbs.	4 lbs.	Adhere

*Complete list of repair parts for No. 2 1/2 Tool on page 69. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.*

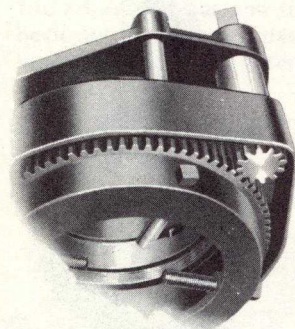




**"Toledo" Geared Adjustable Threading Device No. 3**  
CAPACITY 4½" to 8" PIPE, INCLUSIVE

This tool utilizes a separate set of dies for each size pipe, and like the other sizes of "TOLEDO" tools of the same pattern is the most popular tool of its capacity in use today.

Its net weight as it is picked up to be put on the pipe is but 148 pounds.



*The strong, accurately cut gears are all covered in "TOLEDO" tools.*

With clearance in other directions it may be operated on a pipe the center of which is within 10" of a wall or other obstruction. One man can readily cut an 8" thread with it and do the work without loss of time.

The complete tool consists of the tool body, complete set of 4½" to 8" right hand dies, bushings, set screw wrench, an instruction card, all packed in a wood box, and a ratchet handle which is shipped separately.

Special 4" dies and 4" bushing may be furnished for this tool when required, on special order.

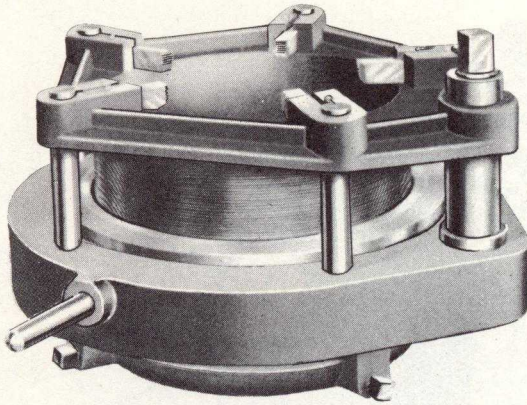
The productive capacity of this tool can be increased many times by operating it with a "TOLEDO" Power Drive described on pages 34 to 38 inclusive.

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 3, Complete, 4½" to 8".....	\$300.00	215 lbs.	226 lbs.	Abbey
1 Complete Set Dies, 4½" to 8".....	60.00	16½ lbs.	20 lbs.	Assured
1 Set 4½" Dies.....	12.00	4 lbs.	5 lbs.	Adapt
1 Set 5" Dies.....	12.00	3¾ lbs.	5 lbs.	Adequate
1 Set 6" Dies.....	12.00	3¼ lbs.	4 lbs.	Adhere
1 Set 7" Dies.....	12.00	3 lbs.	4 lbs.	Advance
1 Set 8" Dies.....	12.00	2½ lbs.	3 lbs.	Afflict

Complete list of repair parts for No. 3 Tool on page 70. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.







## "Toledo" Geared Adjustable Threading Device No. 4

CAPACITY 9" to 12" PIPE, INCLUSIVE

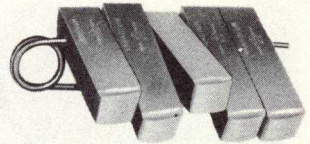
This is the largest "TOLEDO" pipe threading tool, and is remarkable in that it is perfectly practical for one man to cut a 12" thread by hand with same.

Special 8" dies and 8" bushing can be furnished on order when required.

In addition to the threading dies it is also furnished with a set each of 10" and 12" plain milling dies, furnished for the purpose of truing up the pipe before threading it.

Considering its size, this tool is extremely light, and as it is picked up to be put on the pipe its net weight is but 278 pounds.

The complete tool consists of tool body, complete set 9" to 12" right hand dies, 10" and 12" milling dies, bushings, set screw wrench, and instruction card, all packed in a wood box, and a ratchet handle which is shipped separately.



The productive capacity of this tool can be increased many times by operating it with a "TOLEDO" Power Drive, described on pages 34 to 38 inclusive.

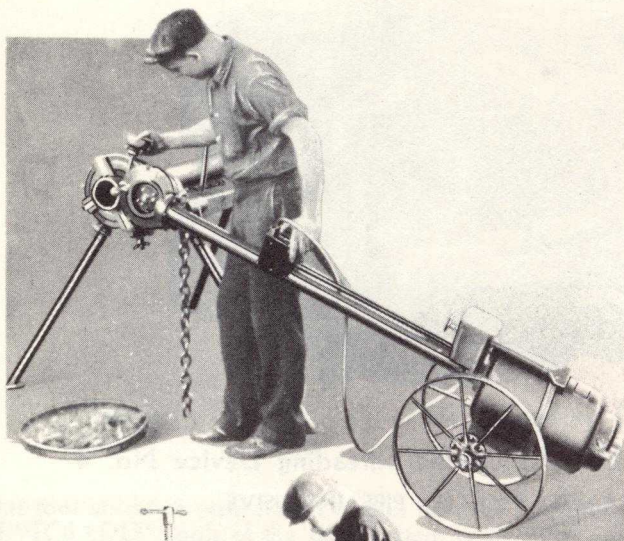
*The 10" and 12" milling dies true up the pipe assuring perfect threads.*

Tool, Extra Dies	List Price	Net Wt.	Ship. Wt.	Code
No. 4, Complete, 9" to 12".....	\$500.00	329 lbs.	373 lbs.	Abbott
*1 Complete Set Dies, 9" to 12".....	60.00	10 lbs.	13 lbs.	Agent
1 Set 9" Dies.....	20.00	4 lbs.	5 lbs.	Afford
1 Set 10" Dies.....	20.00	3 1/2 lbs.	4 lbs.	Affraid
1 Set 12" Dies.....	20.00	2 1/2 lbs.	3 lbs.	After
1 Set 10" Plain Milling Dies.....	20.00	3 1/2 lbs.	4 lbs.	Against
1 Set 12" Plain Milling Dies.....	20.00	2 1/2 lbs.	3 lbs.	Agate

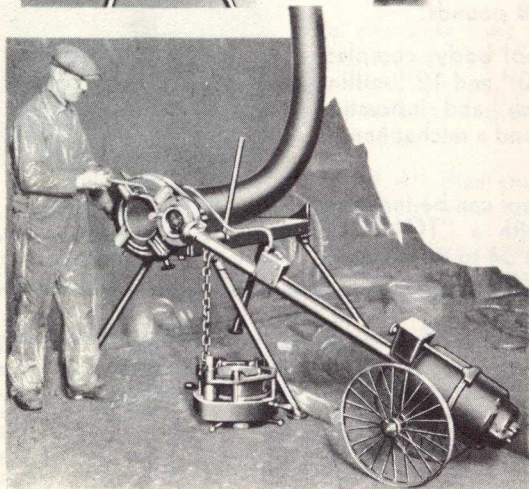
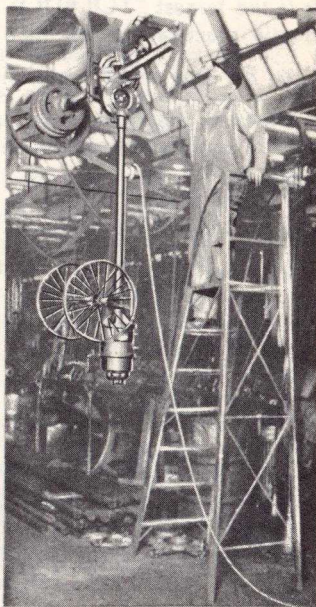
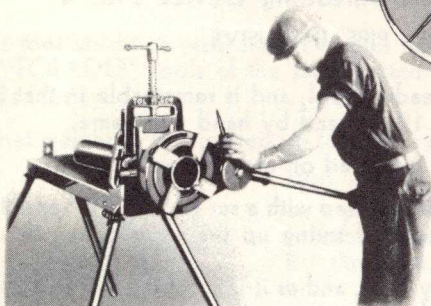
*\*\*"1 complete set Dies" as quoted does not include the plain milling dies. If Milling Dies are wanted they must be ordered specially.*

*Complete list of repair parts for No. 4 Tool on page 71. Prices apply for American standard tools only, other tools will be quoted on specially as occasion arises.*



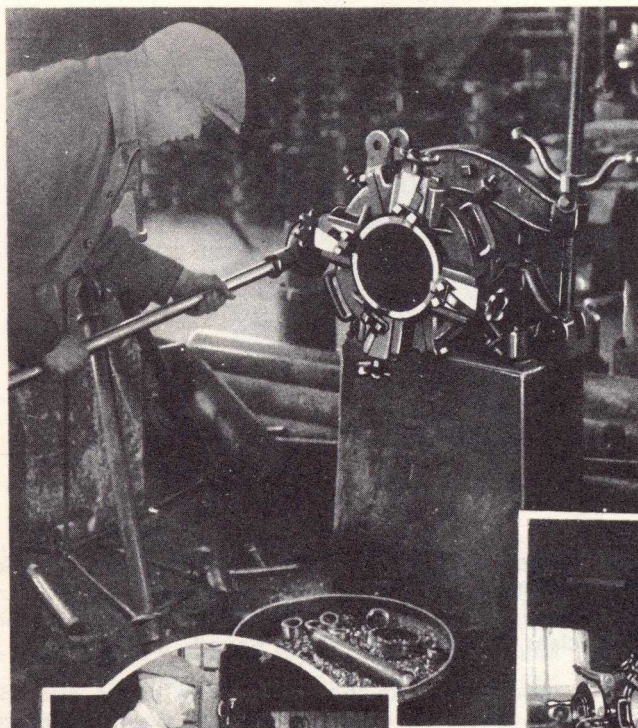


**"TOLEDO"**  
Automatic  
Pipe Cutters  
Cut Pipe in  
Record Time

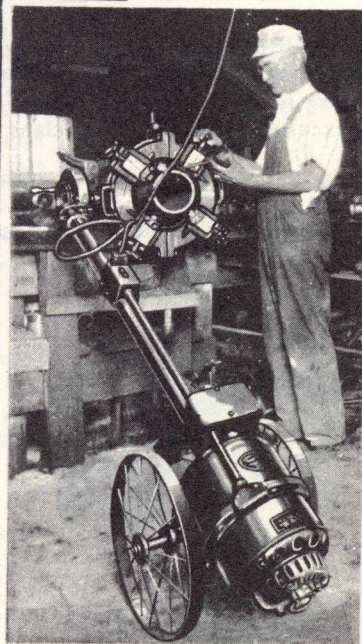
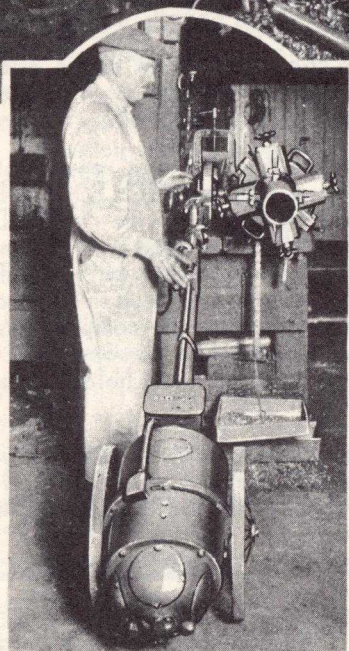


The operator in the upper left illustration is cutting off  $4\frac{1}{2}$ " pipe with a "TOLEDO" No. 80 Automatic in 2 minutes, when using a power drive. Below he is operating the No. 80 by hand with a Ratchet Handle. At the right, a No. 40 Automatic is cutting line shafting with a Power Drive suspended in air. At the bottom the No. 80 Automatic is cutting off an 8" bend.



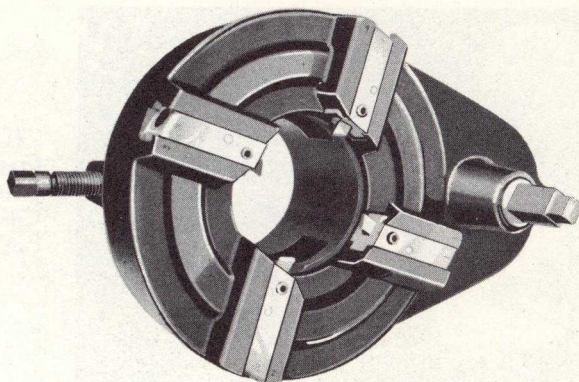


**"TOLEDO"**  
Geared Pipe  
Cutters Cut  
Off Large Pipe  
Perfectly.



A "TOLEDO" Geared Pipe Cutter in the upper left corner is finishing cutting off 8" pipe by hand. Note the clean cut. In the two lower illustrations, "TOLEDO" Power Drives are operating "TOLEDO" Geared Pipe Cutters. An excellent combination for efficiency.



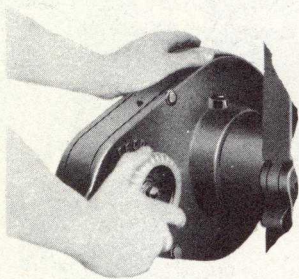


## "Toledo" Automatic Pipe Cutter No. 40

CAPACITY 2" to 4" PIPE, INCLUSIVE

This tool is a most remarkable pipe and conduit cutter. It cuts very rapidly and leaves a straight, square-end cut without burr, and it neatly chamfers the outer edge, making it very easy to center and start the threading dies on the pipe. It is also an excellent cutter for electricians, because of the clean, smooth, cut produced.

Knives are fed automatically, requiring no attention on the part of the operator except to see that they are kept sharp. A single hand-wheel given a part turn sets the knives for cutting, or the quick return after the pipe is cut off.



*A part turn of the hand-wheel sets the knives for cutting or their return.*

It is operated either with the regular ratchet handle furnished with the "TOLEDO" No. 2 or 25 threading tools or the "TOLEDO" Power Drive. When operated by the Standard "TOLEDO" Power Drive it will cut off 2" pipe in 20 seconds, and 4" pipe in 65 seconds. It weighs only 70 pounds, is compact, easy to handle, and very simple to operate. One jaw centers it on the pipe and holds it true and rigid.

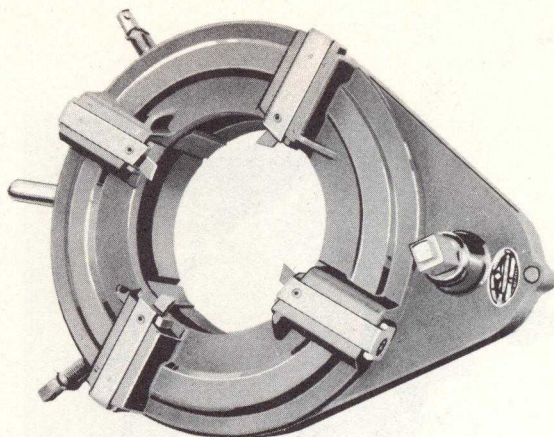
The complete outfit consists of the tool body, set screw wrench, bushings, an extra set of cutter knives and an instruction card, all packed in a wood box.

Tool, Extra Parts	List Price	Net Wt.	Ship. Wt.	Code
No. 40, Complete, 2" to 4".....	\$60.00	70 lbs.	86 lbs.	Auto
*Cutter Blades, each.....	.60	1 1/4 oz.	4 oz.	Avian
Cutter Blades, Complete Set.....	2.40	5 oz.	1 lb.	Avon

*\*When ordering single blades the remaining blades of the set must be returned to the factory to insure the new blades being properly matched in.*

*Complete list of repair parts for No. 40 Pipe Cutter on Page 72.*





## "Toledo" Automatic Pipe Cutter No. 80

CAPACITY 4½" to 8" PIPE, INCLUSIVE

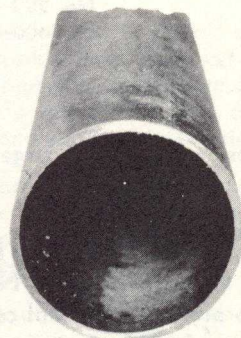
This pipe cutter is an excellent companion tool for the No. 3 Threading Device. It is similar to the No. 40 except larger and equipped with two set screws for centering the tool on the pipe.

It cuts off large pipe very rapidly and perfectly and provides the most efficient means for doing this work.

Knives are fed automatically. A hand wheel sets them for cutting or at the completion of the cut a turn in the opposite direction and the knives are quickly returned to their original position.

This cutter is operated either with the regular ratchet handle furnished with the No. 3 and No. 4 Threading tools or the "TOLEDO" Power Drive. When operated by the Standard Drive it will cut off 4½" pipe in 1½ minutes and 8" pipe in 2 minutes.

It weighs only 134 lbs. as it is picked up to be put on the pipe, is strictly portable and easy to operate. Complete outfit consists of tool body, set screw wrench, bushings, two sets of cutter blocks, an extra set of cutter knives and an instruction card, all packed in a wood box.



*An actual photograph, not retouched, of pipe cut off with a "TOLEDO."*

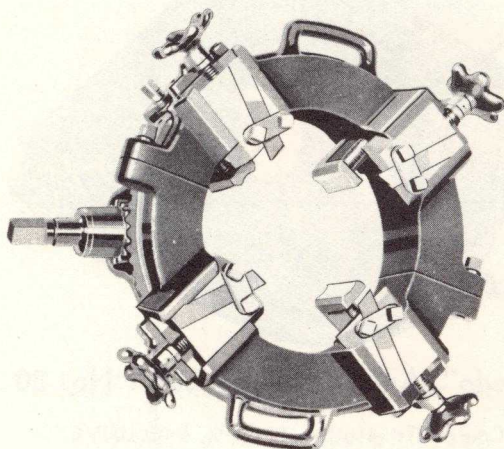
*Note the smooth, square end, cut without burr.*

Tool, Extra Parts	List Price	Net Wt.	Ship. Wt.	Code
No. 80, Complete, 4½" to 8".....	\$150.00	173 lbs.	19½ lbs.	Alien
*Cutter Blades, each.....	.75	2 oz.	4 oz.	Alley
Cutter Blades, Complete Set.....	3.00	8 oz.	1 lb.	Alva

*\*When ordering single blades the remaining blades of the set must be returned to the factory to insure the new blades being properly matched in.*

*Complete list of repair parts for No. 80 Pipe Cutter on Page 72.*





### "Toledo" Geared Pipe Cutters

No. 250—CAPACITY 2½" to 6" PIPE, INCLUSIVE

No. 300—CAPACITY 4½" to 8" PIPE, INCLUSIVE

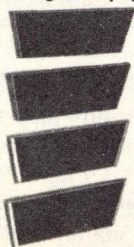
No. 350—CAPACITY 7" to 10" PIPE, INCLUSIVE

No. 400—CAPACITY 9" to 12" PIPE, INCLUSIVE

These tools cut off large pipe quickly, accurately, leaving a straight, square-end cut without burr.

The chuck jaws are case hardened with micrometer marks, making it easy to center the tools on the pipe. No bushings are necessary. The frame castings are made in two pieces so the tool can be clamped around pipe already installed in a line and the work performed.

When cutting off pipe while the cutter frame is rotating, either by means of the ratchet handle or a "TOLEDO" Power Drive, the knives are fed into the pipe by hand, the operator giving the hand feed wheel a part turn at each revolution.

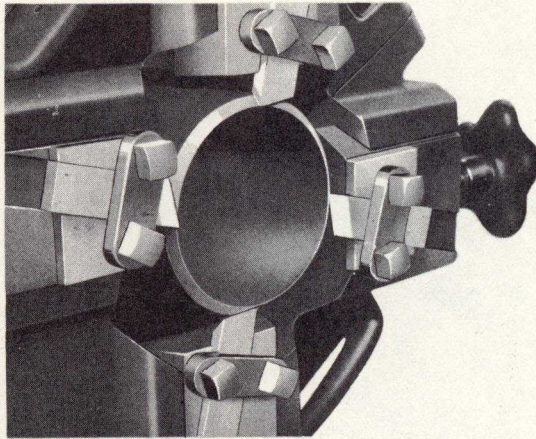


*The High Speed Steel Double-Ended Cutter Blades are easily sharpened when dull.*

The knives are made of High Speed Steel carefully tempered and double-ended. They may be re-ground many times as they become dull. The driving pinion has an oil reservoir assuring proper lubrication.







Special cutter blades for cutting a 45° bevel with a narrow shoulder on the end of the pipe can be furnished on special order. These special bevel cutter knives with the necessary adapters and cutter clamp screws are illustrated above in operation, showing the clean cut, perfectly bevelled end.

These geared pipe cutters with the special knives will enable you to cut off and bevel large pipe most economically and in the shortest possible time. They cut off large pipe easily and perfectly and assure the cut being square with the axis of the pipe, thus making for more rapid and accurate installation.



*Pipe is cut off and bevelled perfectly with the special 45° blades.*

The complete tool consists of the tool body, cutter knives, set screw wrench and instruction card, all packed in a wood box, and the ratchet handle shipped separately.

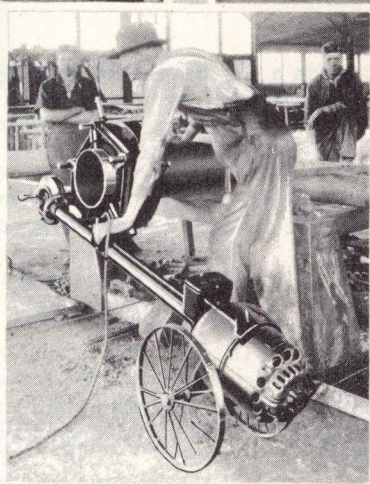
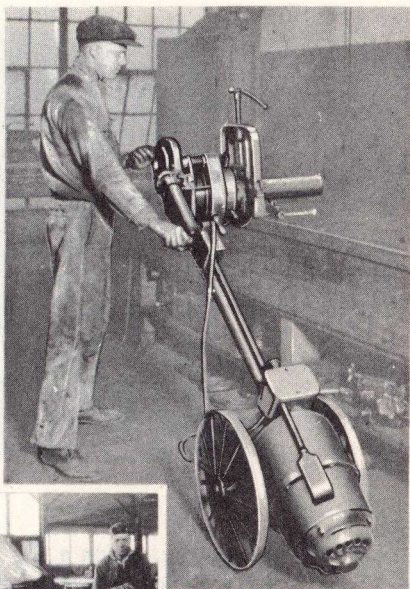
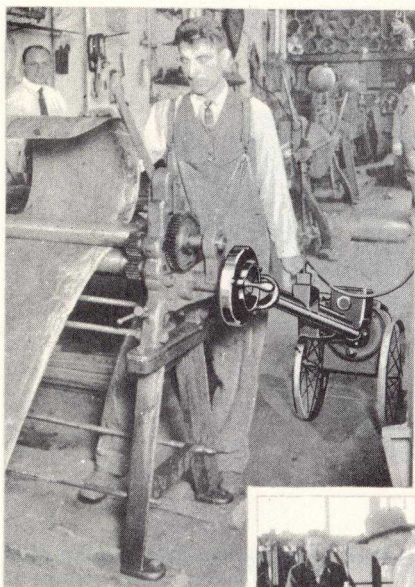
The productive capacity of these cutters can be increased many times by operating them by the "TOLEDO" Power Drives described on pages 34 to 38 inclusive.

Tool, Extra Parts	List Price	Net Wt.	Ship. Wt.	Code
No. 250, Complete, 2½" to 6".....	\$ 80.00	98 lbs.	121 lbs.	Hay
No. 300, Complete, 4½" to 8".....	105.00	125 lbs.	162 lbs.	Harem
No. 350, Complete, 7" to 10".....	130.00	150 lbs.	178 lbs.	Hake
No. 400, Complete, 9" to 12".....	150.00	175 lbs.	211 lbs.	Harvest
*Cutter Blades, Each.....	.80	1 oz.	4 oz.	Haven
Cutter Blades, Complete Set.....	3.20	4 oz.	1 lb.	Havoc
1 Set of (4) Special Bevelled Cutter Blades	10.00	14 oz.	1 lb.	
1 Set of (2) Adapters.....	10.00	11 oz.	1 lb.	
1 Set of (8) Cutter Clamp Screws.....	1.60	12 oz.	1 lb.	

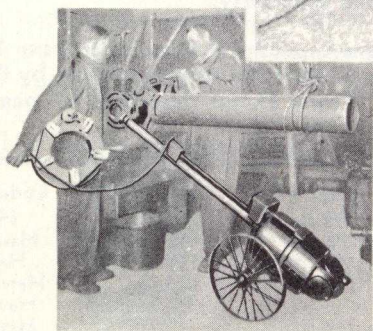
\*When ordering single blades always specify whether "Straight or Bevel" edge required.  
Complete list of repair parts for "TOLEDO" Geared Pipe Cutters on page 73.





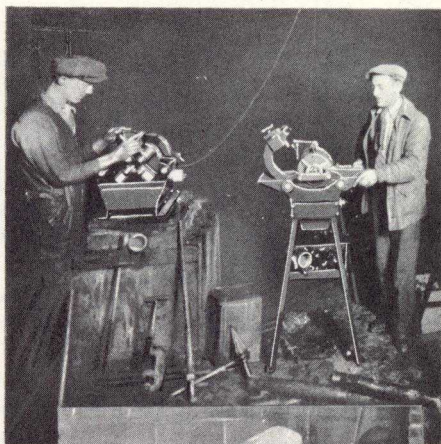
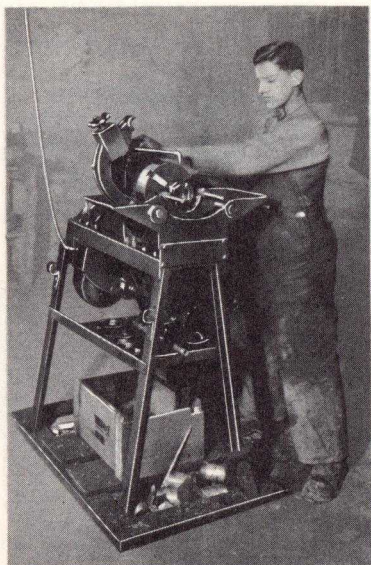


**"TOLEDO"**  
Power Drives are  
used in many ways  
by thousands of  
Contractors

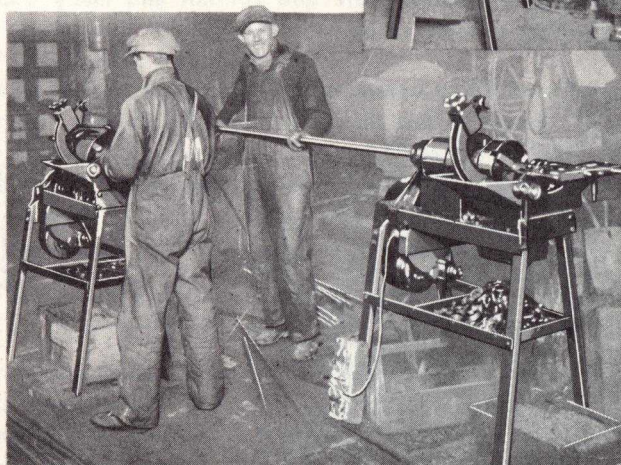


*In the upper left a "TOLEDO" Power Drive is turning sheet metal rolls, and in the upper right operating a "TOLEDO" No. 3 threading 5". In the center the operator is taking it easy threading 12" pipe. The two operators in the lower left are making speed with "TOLEDO" equipment on a big contract, and in the lower right, the Drive is operating a winch hauling dirt from an excavation.*



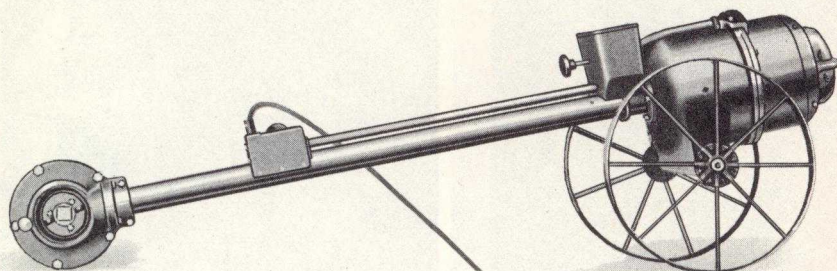


The large and small contractor finds the "TOLEDO" No. 999 or No. 1000M highly efficient.



The boy in upper left illustration is operating a "TOLEDO" No. 1000M in Quebec. The No. 999 and the No. 1000M in the upper right are completing a New York Apartment contract in record time. Even the smaller plumber finds a No. 999 a great time and labor saver as shown in the center and below a larger contractor is shown with the two No. 1000M machines in his shop.

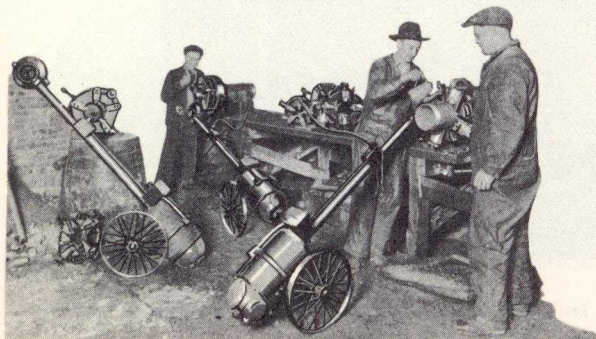




### "Toledo" Standard Power Drive

The "TOLEDO" Power Drive has been on the market for a number of years, and its ability to save both time and labor on pipe threading and cutting jobs has been proven to the satisfaction of thousands of owners. It is designed to operate our hand threading and cutting devices by electricity, and thus increase their efficiency. It will save approximately four-fifths of the elapsed time as compared with hand operation on a pipe threading or pipe cutting job, and very often in addition will save an extra man's time entirely. It is also used to turn sheet metal rolls, operate hoisting winches to pull electric cable thru conduit and many other machines requiring hand cranking methods of operation.

One man using a Power Drive operating "TOLEDO" tools can cut a 2" thread in 18 seconds, 4" threads in less than 2 minutes, 6" threads in 3 minutes, 8" threads in less than 4 minutes, and 12" threads, including the double operation of running over the pipe with blank dies to true up the surface, in less than 15 minutes. These are actual working figures and can be reproduced regularly.



*Large contractors depend on their "TOLEDO" drives to reduce costs.*

The Drive is not a pipe cutting or threading machine, it is a means for operating our hand threading and cutting tools by electric power, and connected to "TOLEDO" tools it makes a most efficient and desirable equipment for

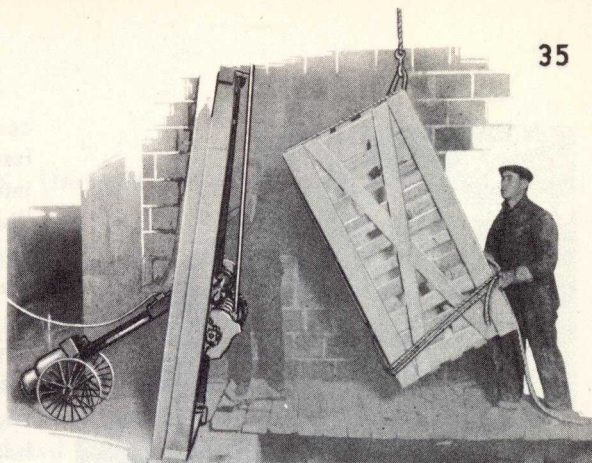


cutting and threading pipe. Light, portable, strong, easy to operate and fast, it has no rival.

It consists of a specially designed electric motor, mounted in a housing which also encloses a transmission gearing, communicating with a driving shaft extending to the operating end of



*Is easily moved about.*



*A "TOLEDO" drive operating a winch to raise bath tubs and supplies to the upper floors of an apartment job.*

the shaft housing, the whole mechanism being mounted on iron wheels, thus providing for easy movement from place to place.

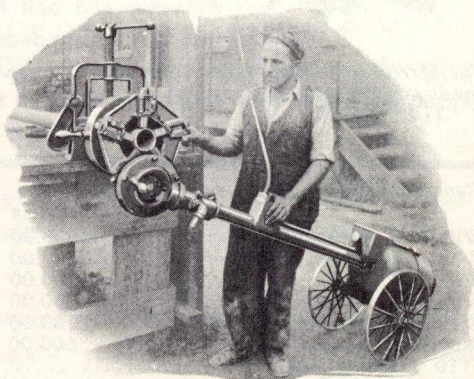
The motors used in the regular model Drives can be supplied for A. C.  $1\frac{1}{2}$  H. P. or for D. C. 1 H. P. They are much more powerful than the household type of motor and require more current. They should not, therefore, be connected to a lamp socket of the ordinary household system.

Twenty feet of flexible cable is supplied with each Drive, and this should be wired into the power lines in the building where the Drive is to be used, or into the main leads of the lighting circuit at some one of the distributing cabinets in the building. If necessary to add wire to the cable furnished with the Drive, we recommend the use of No. 8 wire.

The length of the Drive over all is approximately 6 feet. The net weight varies from 230 to 273 pounds, and the shipping weight from 318 to 363 pounds. The iron wheels are 18" in diameter.

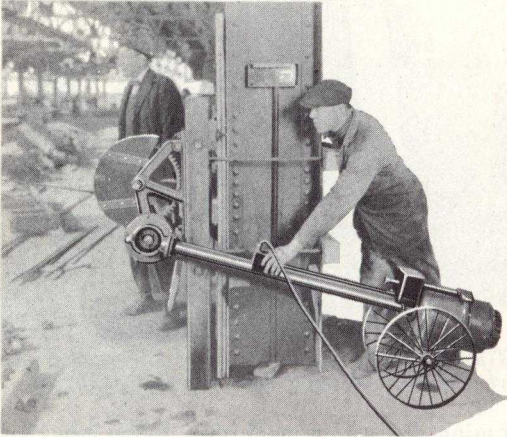
Enclosed in the motor housing is a two speed transmission gearing, which is controlled by a rod and knob projecting through the fuse box.

Mounted on the shaft housing, just above the motor, is a fuse box



*Many "TOLEDO" Drives are used in the coal fields where time and labor saving is a factor.*

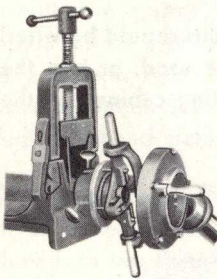




The "Drive" operating a hoisting winch on a large factory construction job.

with two driving bushings to fit the two sizes of pinions used on the various "TOLEDO" tools. At slow speed it rotates at 38 R.P.M. and on high speed at 57 R.P.M.

We specialize on 60 cycle, single phase, A.C. motors for 220-110 volt current, and on 220 volt D.C. motors, or 110 volt D.C. motors. Drives can be supplied from



The special yoke and handles for operating a "TOLEDO" No. 1 tool.

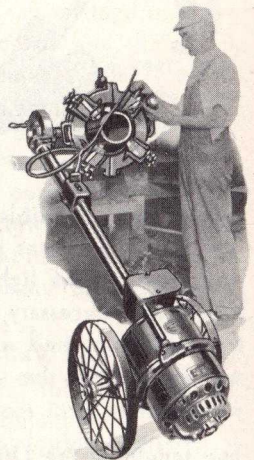
stock equipped with any one of these motors.

We can also make up a Drive furnished with three-phase motors, or for higher voltages or different cycles, and will be glad to quote prices.

A yoke and pair of short handles can be furnished on special order, to permit of the operation of "TOLEDO" No. 1 tools by the Power Drive.

containing two specially designed fuse plugs, which will permit of intermittent overloads but will "blow" should any overload become dangerous to the life of the motor. These fuse plugs can be renewed by the insertion of new fusible links, an extra pair of which is supplied with each outfit. Mounted midway on the shaft housing is the switch box, to which the flexible cable is connected by a plug connector. The switch is of a special toggle joint type.

The driving head is furnished



A Power Drive and a "TOLEDO" cutter cuts off large pipe in record time.

#### Standard Power Drives, Special Attachment.

	List Price	Net Wt.	Ship Wt.	Code
With A.C. Motor, 60 Cycle, S.P.....	\$600.00	230 lbs.	318 lbs.	Lard
With A.C. Motor, 50 Cycle, S.P.....	600.00	230 lbs.	318 lbs.	Ladder
With A.C. Motor, 40 Cycle, S.P.....	700.00	273 lbs.	350 lbs.	Lather
With A.C. Motor, 30 Cycle, S.P.....	700.00	273 lbs.	350 lbs.	Lance
With A.C. Motor, 25 Cycle, S.P.....	700.00	273 lbs.	350 lbs.	Loaf
With D.C. Motor.....	600.00	273 lbs.	363 lbs.	Lint
*110 Volt add Code Word.....		.....	.....	Despond
*220 Volt add Code Word....		.....	.....	Bouyant
Special Attachment for No. 1 Tool .....	5.00	5 lbs.	6 lbs.	Library

\*When ordering standard drive always specify voltage.

Complete list of repair parts for standard power drives on page 75.



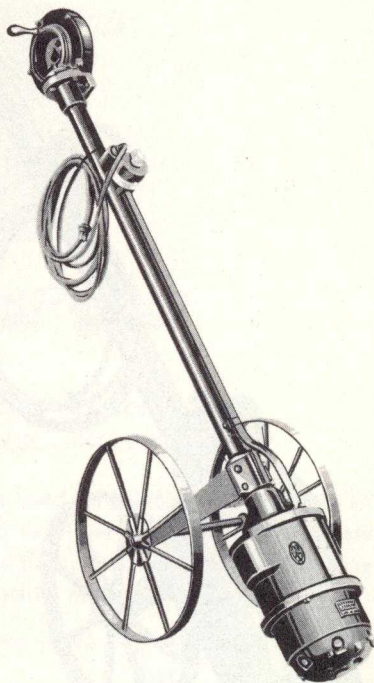


## "Toledo" Universal Power Drive

THE "TOLEDO" UNIVERSAL Power Drive is equipped with a  $\frac{1}{2}$  H.P. universal motor which will operate from a light socket on any 110 volt current. This Drive unlike the other models, has a reversible motor and after the thread is cut, the operator backs the dies off the completed thread simply by a turn of the switch which is conveniently located near the driving head.

The motor automatically adjusts speed to load, increasing power and decreasing speed as required on heavy loads and increasing speed on light loads. It thus backs the dies off rapidly and without loss of time, and always assures maximum efficiency. It is powerful and assures the operator long and satisfactory service. Its operating cost is very low.

This UNIVERSAL Drive weighs only 165 pounds, is strongly built, and will give years of satisfactory service. Like the other "TOLEDO" Drives, it is simple in construction, easy to operate. While it will operate "TOLEDO" tools for cutting and threading pipe up to and including 12" and will pay for itself in a short time by the time and labor it will save. Yet the Universal Drive is not as powerful, fast or efficient as the Standard or Super Models, shown on the preceding and following pages, respectively.



*The Universal Power Drive weighs less than other model drives but is very strong, sturdy and powerful.*

When used with the Power Drive Helper, described on pages 40 and 41, operating "TOLEDO" tools it makes efficient equipment for cutting and threading  $\frac{1}{4}$ " to 2" pipe.

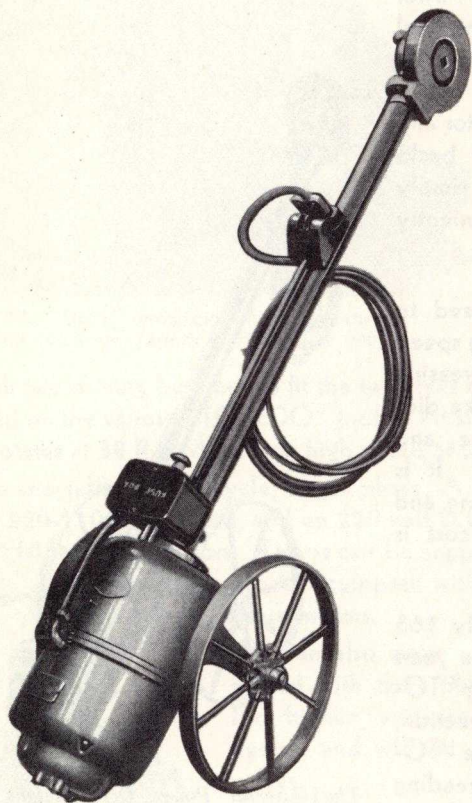
"Universal" Power-Drive	List Price	Net Wt.	Ship. Wt.	Code
"Universal" with $\frac{1}{2}$ H.P. Motor, to operate on any 110 Volt Current . . .	\$500.00	165 lbs.	238 lbs.	Log

*Complete list of repair parts for universal power drives on page 76.*





## "Toledo" Super Power Drive



*While the Super Power Drive is the most powerful, yet it may be easily moved about on its strong iron wheels.*

Drive weighs 278 lbs. and is powerfully built. It is easily moved about on strong iron wheels and provides the most rapid and efficient means for operating the large "TOLEDO" Geared Pipe Threading and Cutting Tools. It is not practical to use with the smaller tools because of its high speed.

The "TOLEDO" Super Power Drive is similar in appearance to the "TOLEDO" Standard Drive but is slightly larger. It is the most powerful, rapid and efficient of all "TOLEDO" Drives.

When operating a "TOLEDO" No. 3 tool it threads  $4\frac{1}{2}$ " pipe in 2 minutes and 8" pipe in less than 3 minutes. Operating a No. 80 Cutter,  $4\frac{1}{2}$ " is cut off in 45 seconds and 8" in 50 seconds.

The Drive is furnished with  $2\frac{1}{2}$  H. P. 3-phase A. C. motor only, either 220 or 440 volts. It is controlled by a specially designed switch conveniently located on the drive shaft casing. Specially designed fuse plugs protect the motor from damage.

The driving head rotates at 57 R.P.M. low speed and 97 R.P.M. at high speed. The Super Power

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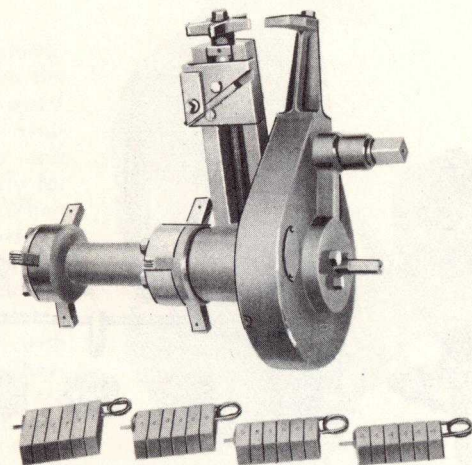
"Super" Power-Drive	List Price	Net Wt.	Ship. Wt.	Code
"SUPER" with $2\frac{1}{2}$ H.P. Motor.....	\$750.00	278 lbs.	396 lbs.	Lumber

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*When ordering specify whether for 220 or 440 volts.*







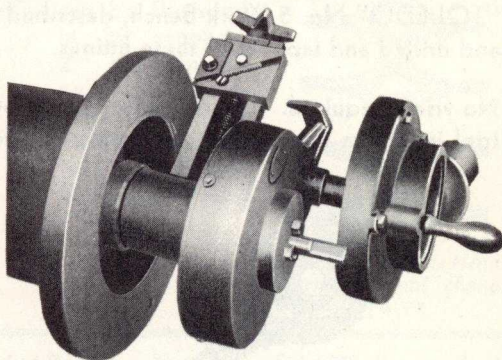
**"Toledo" Flange Facing Device**  
CAPACITY 4½" to 8" FLANGES, INCLUSIVE

This device is operated by a power drive and is used for refacing pipe flanges after they have been made up on the pipe and also vanstone joints, in order to assure the face of the flange being at true right angles with the length of the pipe. Flanges on long lengths of pipe and bends can be readily machined with this device.

The work is done easier and more quickly than in an expensive lathe and contractors handling this class of work will find that one of these machines will soon pay for itself.

The device is accurately centered and rigidly held by the turn of one set screw. It is easily handled by one man. The cutter knife is fed automatically and when dull may be readily resharpened.

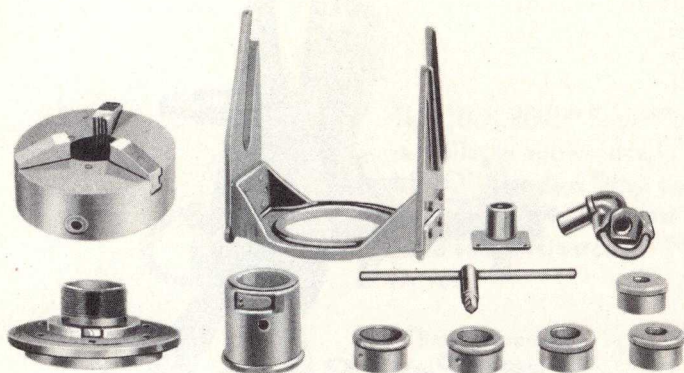
The complete device consists of the tool and complete set of jaws for the various sizes of pipe, all packed in a wood box.



*The Flange Facing Device mounted, with driving head of power drive attached ready to start facing off an 8" flange.*

Flange Facing Device	List Price	Net Wt.	Ship. Wt.	Code
Flange Facing Device, Complete 4½" to 8" .....	\$500.00	84 lbs.	104 lbs.	Flood





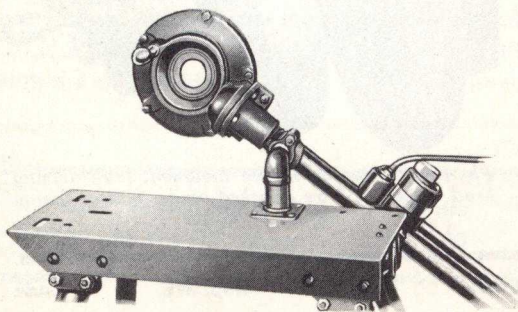
### "Toledo" Power Drive Helper

CAPACITY  $\frac{1}{2}$ " to 2" PIPE, INCLUSIVE

This equipment is for use with "TOLEDO" Power Drives and "TOLEDO" tools and with them make a very efficient combination.

The Helper includes a pipe saddle and other fittings by which the Power Drive is secured to any bench or post as illustrated. We recommend the use of the "TOLEDO" No. 5 Work Bench, described on page 53 as it is very strong, rigid, and drilled and tapped for these fittings.

No vise is required. The chuck holds and rotates the pipe, the cutting or threading tool is put on the pipe, the current is turned on and the pipe quickly cut off or threaded. A turn of the switch, the motor is reversed and the dies are quickly backed off the completed thread. No effort and no loss of time. There is no danger of injury to operator, as the pipe revolves and the tool is stationary. With "TOLEDO" tools this equipment will thread  $\frac{1}{2}$ " pipe in 20 seconds, 1" in 30 seconds and 2" in 36 seconds, including backing the dies off the completed thread.

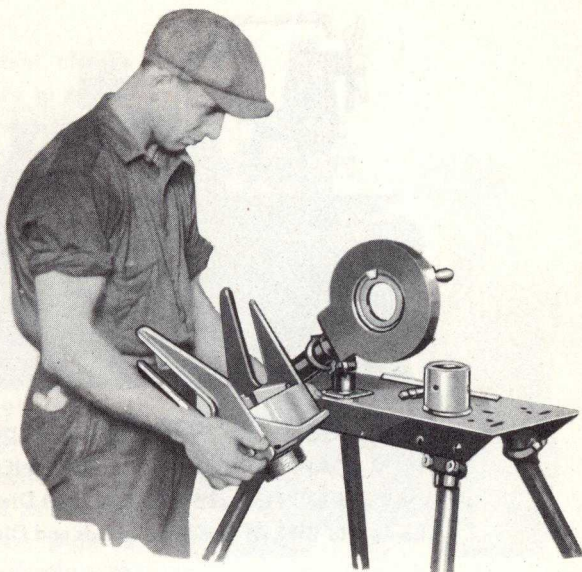


*A clamp is furnished with each Helper to hold the Power Drive to the bench.*



It permits the use of the Vosper Pipe Cutter or any roller cutter for cutting off pipe.

The Helper can be furnished for operating with the "TOLEDO" Standard Power Drive or the Universal Power Drive and when ordering specify for which type drive. When used with a Standard Drive, it is necessary for the operator to back the dies off the completed thread by hand but with the Universal Drive having the reverse, they are backed off by power.



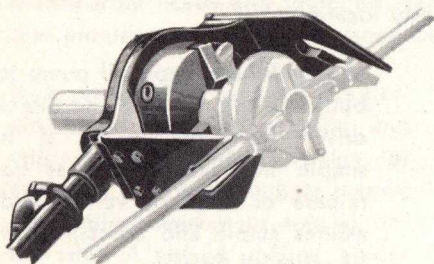
*The P. D. Helper is quickly and easily assembled in the Power Drive.*

The complete outfit consists of the chuck, collar, yoke, bushings, chuck wrench and fittings to fasten Power Drive to bench and pipe support for holding long lengths of pipe; all packed in two wood boxes.

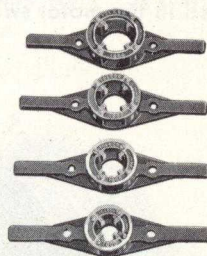
When ordering be sure to specify whether for standard or universal power drive.

Special Die Heads, as illustrated, for threading 1", 1 1/4", 1 1/2" and 2" pipe can also be furnished for use with the Helper. When these are used there are no dies to change, as each head threads one size only, and the greatest possible speed is

assured. 1" pipe can be threaded in 30 seconds, 2" pipe in 35 seconds with these special die heads operated by a "TOLEDO" Universal Power Drive.



*The P. D. Helper Mounted and showing position of Threading Tool.*

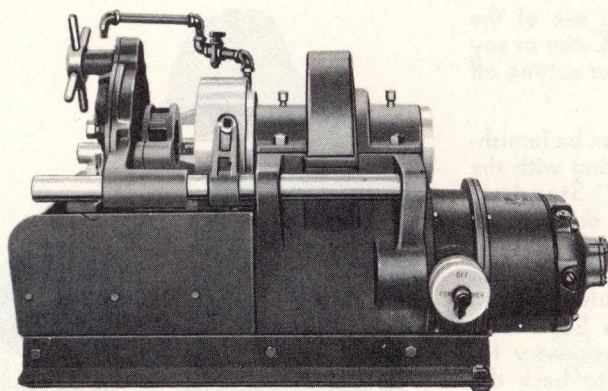


*The Special Die Heads permit instant change of sizes.*

Power Drive Helper, Special Heads	List Price	Net Wt.	Ship. Wt.	Code
P.D. Helper, Complete with Pipe Support	\$120.00	86 lbs.	112 lbs.	Help
1" or 1 1/4" Die Head and Cover, Less Dies	4.40	2 1/2 lbs.	3 lbs.	.....
1 1/2" Die Head and Cover, Less Dies	4.80	2 1/2 lbs.	3 lbs.	.....
2" Die Head and Cover, Less Dies	5.00	3 1/4 lbs.	4 lbs.	.....
1 Set 1" or 1 1/4" R. H. Dies, only	4.00	4 oz.	1 lb.	.....
1 Set 1 1/2" or 2" R.H. Dies, only	5.00	4 oz.	1 lb.	.....

*Complete list of repair parts for P. D. Helper on page 81.*





### "Toledo" No. 999 Power Pipe Machine

CAPACITY  $\frac{1}{2}$ " to 2" PIPE, INCLUSIVE

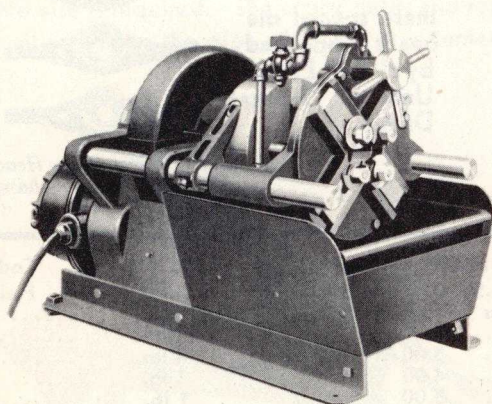
Also  $\frac{1}{4}$ " and  $\frac{3}{8}$ " Pipe, and  $\frac{1}{4}$ " to 1" Bolt Dies if specially ordered.

Also  $\frac{1}{2}$ " to 2" Left Hand Die Heads and Dies on special order.

This machine is the ideal small, compact, portable, power pipe machine for cutting and threading  $\frac{1}{2}$ " to 2" pipe.

It combines all essentials for a practical, popular pipe machine for either shop or job use or industrial plants.

It is equipped with a  $\frac{1}{2}$  H. P. ball-bearing, Universal motor that operates from a lamp socket on any 110 volt current. The motor automatically adjusts itself to load and is very powerful. There are no gear shifting levers as all control is centralized in the motor switch, which is conveniently located.

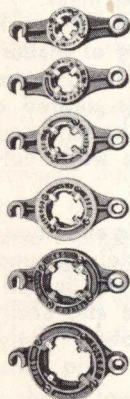


*Built-in oil pump is positive in action and assures ample flow.*

The centrifugal type oil pump is built into the machine and direct driven from the motor, it is simple in construction, has no release or overflow valves, and assures ample and constant flow of oil at all times.

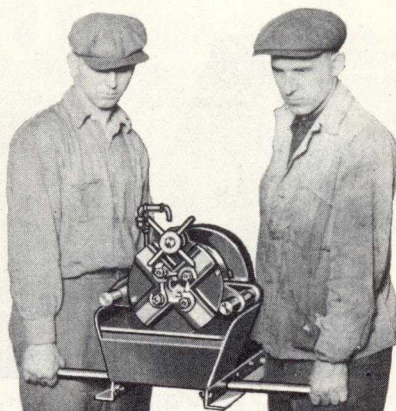
Separate die heads for each size. This method permits hobbing or machining the dies with utmost accuracy and precision for each size pipe, assuring the proper clearance and helix angle and perfect standard threads, even with inexperienced operators. Die heads mounted on two posts, per-





*Separate die heads assure quick change and standard threads.*

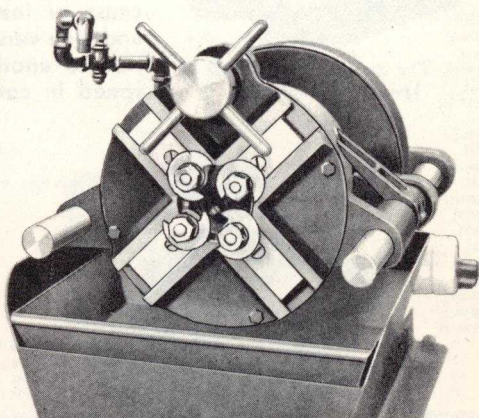
mitting instant change from one size to another or turning the head back out of the way. No moving parts to become worn or to be replaced. No loss of time. No rack on ways to become clogged with dirt or chips. Nipples as short as  $3\frac{1}{4}$ " can be cut on the 2" size and even shorter than this on the smaller sizes,  $\frac{1}{2}$ " nipples as short as  $1\frac{3}{4}$ ". Brass pipe is threaded perfectly with regular die heads and dies.



*Two men can easily carry the No. 999 pipe machine anywhere, even thru any ordinary door.*

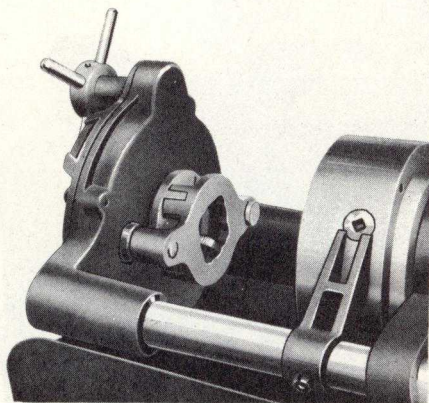
Complete set of  $\frac{1}{2}$ " to 2" right-hand dies furnished with each machine.  $\frac{1}{2}$ " and  $\frac{3}{4}$ " made from special Carbon Alloy Steel and 1" to 2" made from High Speed Steel, carefully hardened and tempered, of the usual high standard of "TOLEDO" quality. Comparatively inexpensive, assuring maximum service at minimum expense. Easily removed from heads and reground many times as they become dull. Segmental dies provide greater chip clearance and easier oiling.

Bushings furnished for each size permit instant centering of pipe, but only necessary when cutting or threading pipe 6 ft. long or longer. The cutting head is of special design with 4 circular cutting blades all cutting simultaneously and producing a smooth, square-end cut without burr. Pipe is cut off very rapidly, 2" pipe is cut off in 14 seconds and smaller sizes in proportion. Blades fed by small hand wheel, permitting instant adjustment for various sizes. Double edged cutter blades may be turned over when one edge becomes dull



*Special cutter head with 4 blades cutting simultaneously means high cutting speed.*

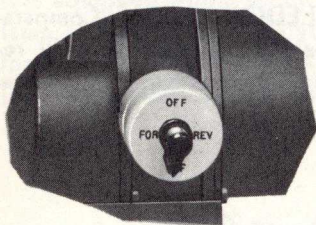




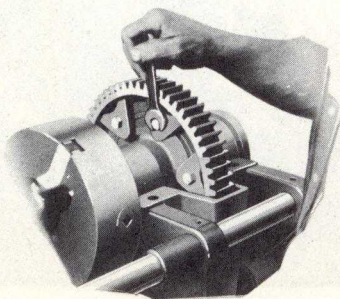
*Rear view of cutter head with 2" die head mounted for threading. Note chuck wrench ejector finger.*

easily regulated by six cap screws.

The chuck is a heavy 3 jaw Universal type. Ejector fingers mounted on the supporting posts on both sides of the chuck will positively eject the chuck wrench if operator leaves wrench in the chuck and turns on the switch. No damage to wrench or machine. The chip pan is oversize and easily removed to empty the chips.



*The switch controls all speeds. No levers.*



*The Safety Friction Gear adjusted by tightening 6 cap screws under gear cover.*

and the sharp edges used, or may be easily removed and reground. Can be resharpened many times. A small gauge is furnished with each machine for easy setting of blades. Cutter Blades leave clean, square end cut. If reaming is desired a special pipe reamer can be furnished that will ream the pipe while cutting the thread.

The spindle is very strong and heavy with extra large, accurately ground bearings. All gears run in oil. Bearings are extra large and accurately fitted and oil grooved. Only 4 oil holes on machine.

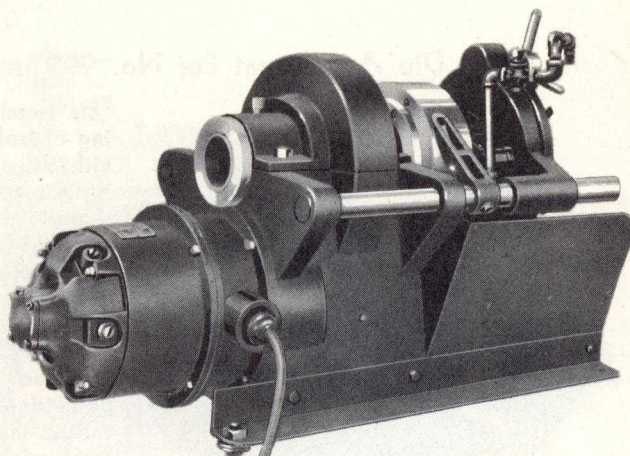
Power is transmitted through direct gear drive and there are no chains or belts. The entire mechanism is protected by a safety friction gear,

This machine is light enough to be readily carried by two men and will easily pass thru any ordinary door. Its weight is properly distributed and the machine is perfectly balanced. It occupies a bench space 32" x 16", is only 20" high and is very sturdy in construction. Its production is unusually high because of instant change from cutting to threading and vice versa, quick change of die heads from one size to another, elimination of rear chucking and speed in cutting and threading. 2" pipe can be easily cut off in 14 seconds and threaded in 30 seconds, and smaller sizes in proportion. Left hand threads can be produced with special left hand die heads and dies.

Machine is shipped assembled and ready for operation. It is furnished complete with 1/2" to 2" R. H. die heads and dies, bushings, complete set of 4 cutter blades, chuck wrench, cutter blade and friction gear wrench, 10 feet of heavily insulated rubber covered cable with connector and plug, and one gallon of thread cutting oil.



Additional equipment furnished on special order; Pipe Reamer,  $\frac{1}{4}$ " and  $\frac{3}{8}$ " die heads and dies for cutting standard pipe threads. Special dies for cutting straight running threads without taper or threads longer than Briggs standard. Also special steel stand, equipped with tool tray, for mounting machine and pipe support for holding long lengths of

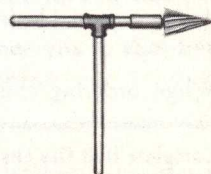


The motor is attached to rear end of the machine out of the way.  
Note the strong and sturdy construction.



Left hand threads are cut with the special left hand die heads and dies.

pipe. Special bolt threading attachment can also be furnished. It consists of a bolt rod holder which holds rods in sizes from  $\frac{1}{4}$ " to  $\frac{7}{8}$ " inclusive, stationary, and a small bolt die holder in which the bolt die is gripped while rotated in the chuck. A special 1" BOLT DIE Head and 1" bolt die can be furnished, but unlike the smaller sizes the 1" rod is held in the chuck and rotates. Special left hand die heads and left hand dies can be supplied for cutting left hand threads on  $\frac{1}{2}$ " to 2" pipe inclusive.



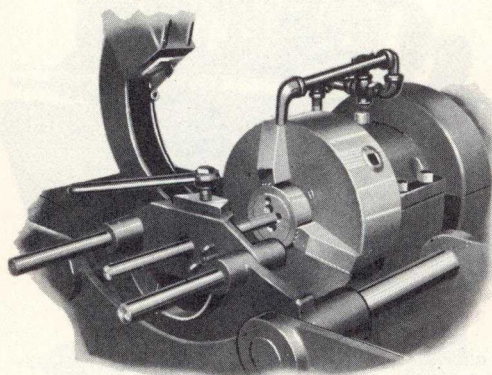
This special pipe reamer can be furnished when desired.

Machine, extra parts	List Price	Net Wt.	Ship. Wt.	Code
No. 999, complete $\frac{1}{2}$ " to 2" with $\frac{1}{2}$ H. P. Universal Motor	\$550.00	296 lbs.	382 lbs.	Jewel
Special Steel Stand and Pipe Support, extra	40.00	71 lbs.	100 lbs.	Jog
Special Pipe Reamer	10.00	4 $\frac{1}{2}$ lbs.	5 lbs.	Jasey
*Cutter Blade, each	3.00	2 oz.	1 lb.	Jib
Cutter Blades, per set of four	12.00	8 oz.	1 lb.	Jitney
Bushings, each	.70	1 $\frac{1}{2}$ lbs.	2 lbs.	
Complete Bolt Die Attachment, only, no dies	17.00	4 $\frac{1}{2}$ lbs.	5 lbs.	Jerk
Bolt Dies, $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ " each	4.00	8 oz.	1 lb.	Jill
Special 1" Bolt Die Head and 1" Bolt Die	20.00	3 lbs.	3 lbs.	Jabot
1 Complete Set $\frac{1}{2}$ " to 2" Die Heads and Covers, only, less dies	26.60	15 $\frac{1}{2}$ lbs.	17 lbs.	Jig
$\frac{1}{2}$ " Die Head and Cover, only, less dies	4.00	2 lbs.	2 lbs.	Jump
$\frac{3}{4}$ " Die Head and Cover, only, less dies	4.00	2 lbs.	2 lbs.	Jean
1" Die Head and Cover only, less dies	4.40	2 $\frac{1}{2}$ lbs.	3 lbs.	Jess
1 $\frac{1}{2}$ " Die Head and Cover only, less dies	4.40	2 $\frac{1}{2}$ lbs.	3 lbs.	Jet
1 $\frac{3}{4}$ " Die Head and Cover, only, less dies	4.80	3 $\frac{1}{4}$ lbs.	4 lbs.	Jowl
2" Die Head and Cover, only, less dies	5.00	3 $\frac{1}{2}$ lbs.	4 lbs.	Jug
$\frac{1}{4}$ " Die Head and Cover, only, less dies	5.00	2 lbs.	2 lbs.	Junta
$\frac{3}{8}$ " Die Head and Cover, only, less dies	5.00	2 lbs.	2 lbs.	Judge
1 Complete Set $\frac{1}{2}$ " to 2" Dies, only	22.00	1 $\frac{1}{4}$ lbs.	2 lbs.	Alarm
1 Set $\frac{1}{2}$ " or $\frac{3}{4}$ " R. H. Carbon Steel Dies, only, per set	2.00	2 oz.	1 lb.	o
1 Set 1" to 1 $\frac{1}{2}$ " R. H. High Speed Steel Dies, only, per set	4.00	4 oz.	1 lb.	o
1 Set 1 $\frac{1}{2}$ " or 2" R. H. High Speed Steel Dies, only, per set	5.00	4 oz.	1 lb.	o
1 Set $\frac{1}{4}$ " or $\frac{3}{8}$ " R. H. Carbon Steel Dies, only, per set	2.00	2 oz.	1 lb.	o

\*When ordering single cutter blades always specify whether "straight" or "bevel" edge required. A complete set must comprise two "straight" and two "bevel" edge blades. Complete list of repair parts for No. 999 on page 78. oSee Code page 87 and 88.



## Bolt Die Attachment For No. 999 or No. 1000M



This attachment permits the threading of bolts, hanger rods, etc., with either the No. 999 or No. 1000M pipe machines. A specially designed holder as illustrated holds bolts or rods in sizes from  $\frac{1}{4}$ " to  $\frac{7}{8}$ " inclusive. The bolt dies are held in a bushing which is gripped in the chuck jaws and rotated while threading. The rod or bolt to be threaded remains stationary thus permitting the threading of rods of various shapes. Necessary wrenches are furnished with each attachment.

A special head fitted with 1" bolt die, as illustrated, can also be furnished. This 1" bolt die head is used as regular threading die heads and the rod therefore is held in the chuck and rotated while the 1" bolt die is stationary.



Owners of No. 999 or No. 1000M pipe machines will find that this special bolt die equipment will enable them to make their own pipe hangers and rods of any sort and will soon pay for itself.

When ordering specify whether for No. 999 or No. 1000M pipe machine.

---

Complete Bolt Die attachment, only, No Dies.....	List Price	\$17.00
Bolt Dies $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ " each.....	" "	4.00
Special 1" Bolt Die Head and 1" Bolt Dies.....	" "	20.00

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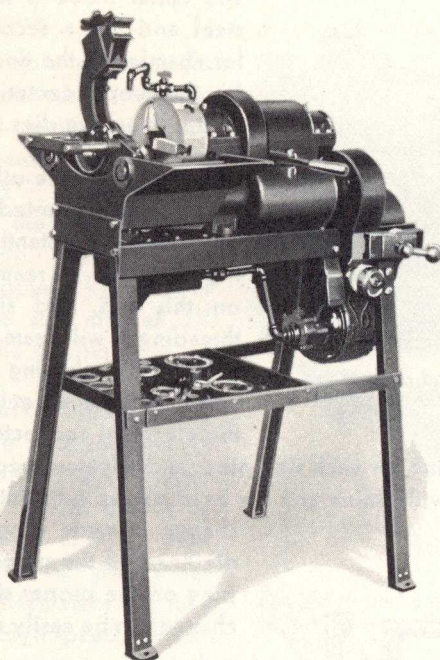
## Proper Thread Cutting Oil Is Essential

It is very important that the proper oil be used for threading pipe. This is particularly true when using power pipe machines. Tests show that the dies will last only a fraction of their normal life with improper oil and poor threads are frequently caused by its use.

Lard oil has long been recognized as most satisfactory for threading pipe. Pure lard oil however is very expensive and has a tendency to thicken in cold weather. Most of the oils sold as "Lard Oils" are adulterated, more or less. From exhaustive tests we have found that good black sulphur base oils are admirably adapted for threading pipe. They are comparatively low in price, do not thicken in cold weather and there are several good brands on the market.

In order to assure operators of "TOLEDO" power pipe machines using the proper oil and thus preventing excessive wear of dies and assist in making clean sharp threads, we furnish free with each No. 999 and No. 1000M machine a gallon of this oil. We will be glad to advise users of "TOLEDO" equipment where such oils can be secured. Operators should remember that the use of plenty of the proper oil is the best assurance for perfect threads and long life dies.





## "Toledo" No. 1000M Power Pipe Machine

CAPACITY  $\frac{1}{2}$ " to 2" PIPE, INCLUSIVE

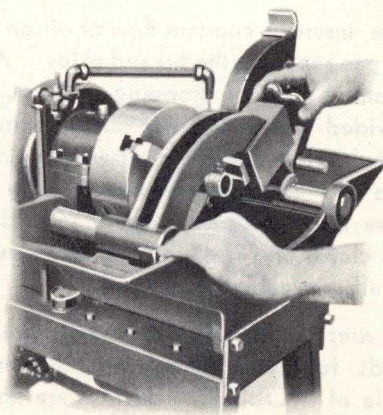
Also  $\frac{1}{4}$ " and  $\frac{3}{8}$ " Pipe, and  $\frac{1}{4}$ " to 1" Bolt Dies if specially ordered.

A fast, highly efficient, practical cutting, threading, and reaming machine for  $\frac{1}{2}$ " to 2" pipe. It is relatively light, portable and compact, and very desirable for either shop or job.

The  $\frac{1}{2}$  H.P. motor may be operated from an ordinary light socket. It is furnished as required, either D. C. 110 Volt, A. C. 110 Volt, 60 cycle, or a 3-phase motor of any cycle or voltage. A Universal motor can also be furnished for 110 Volt D. C. or 110 Volt 25, 30, 40, 50 or 60 cycle A. C.

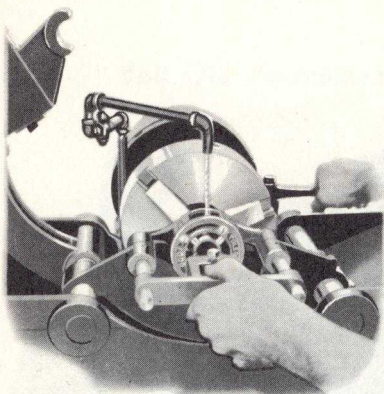
The pipe is gripped by a powerful self-centering chuck and is rotated while being cut or threaded.

The cutting-off tool is mounted on a swinging arm which can be instantly placed in position for operation, or can be turned back out of the way.



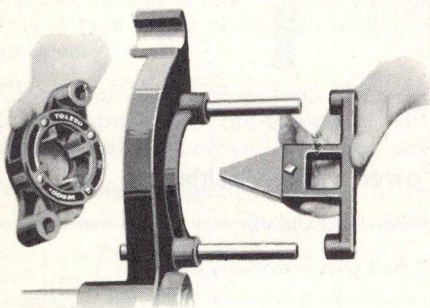
*This shows the arm with cutting knife down in position.*





*Here the arm with die head and reamer is down ready to start threading and reaming.*

ate die head and bushing for each size pipe, and a feature peculiar to this machine is the ease and speed with which one die head can be substituted for another. This



*Die heads are changed instantly. Die head and reamer ready to be slipped on the supporting posts.*

change is made simply by slipping one die head off the supporting posts and slipping on the proper size die head. (The change can be easily made in 10 seconds.)

Bushings are only necessary when cutting or threading pipe 6 feet long or longer. A pipe support for holding long lengths of pipe is furnished with each machine. It is rigid and does not need to be bolted to the floor.

An oil pump driven directly from the motor and fitted with a swinging spout and valve, insures a constant flow of oil on the dies or cutting off tool. An oil strainer and pan separates the oil and chips. A chip pan with extra wide wings prevents oil splashing or chips dropping on floor. A friction gear is provided which will slip under extreme overloads that may develop due to adverse operating conditions. All parts are therefore protected from possible damage. There is no exposed gearing to endanger the operator. The clutch and gear shifting levers as well as the switch are all conveniently located.

The dies can be easily and quickly removed from the die heads for resharpening or replacement. These dies, while of "TOLEDO" quality, are not expensive.

A large metal tray located beneath the machine provides a convenient place for the extra die heads, bushings,

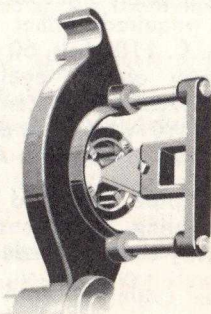
The cutter blade is made of high speed steel and has a secondary cutting edge for chamfering the end of the pipe, assuring the proper centering and easy starting of the threading dies.

Likewise, from the other side, the threading dies are mounted on a swinging arm which can be instantly placed in operating position. A reaming tool is mounted on this arm, and simultaneously while threading it will ream out the inside edge of the pipe, clearing it of any roughness, which will be especially appreciated by the electrical contractor. There is a separate

change is made simply by slipping one die head off the supporting posts and slipping on the proper size die head. (The change can be easily made in 10 seconds.)

Bushings are only necessary when cutting or threading pipe 6 feet long or longer. A pipe support for holding long lengths of pipe is furnished with each machine. It is rigid and does not need to be bolted to the floor.

An oil pump driven directly from the motor and fitted with a swinging spout and



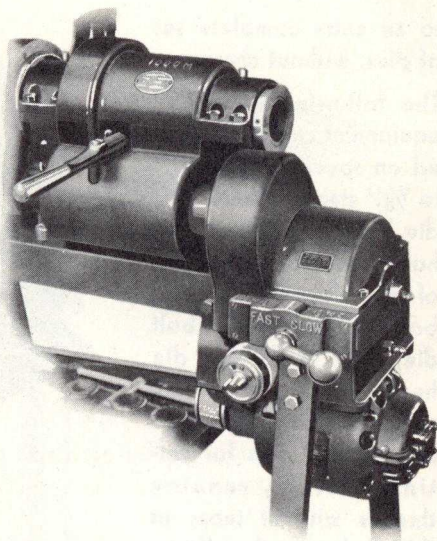
*Die head and reamer in position.*



chuck wrench, and tools.

The machine is portable as it weighs alone only 475 pounds. Another feature is the small amount of space it occupies as it measures 52" high, 25" wide and 32" long. It will easily pass through the ordinary door without disassembling. It will economically produce nipples 3½" long or longer, on 2" pipe and nipples 3" long or longer on the smaller sizes.

A 2" pipe can be cut off and threaded, including chamfering and reaming in 80 seconds, and this time can be duplicated indefinitely. When cutting or threading ½", ¾", 1" or 1¼" pipe the elapsed time can be greatly reduced because on these sizes the machine is operated at high speed, whereas for 1½" and 2" pipe it is operated at slow speed.



*The clutch and gear levers as well as the switch are conveniently located.*

The following actual time tests can be reproduced regularly on this machine and will give some idea of its remarkable labor saving possibilities.

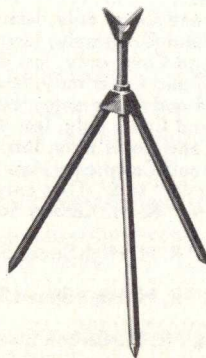
**THREADING**—½" pipe 13 seconds; 1" pipe 16 seconds; 2" pipe 30 seconds; (including backing dies off the completed thread.)

**CUTTING OFF**—½" pipe 8 seconds; 1" pipe 10 seconds; 2" pipe 15 seconds.

**REAMING**—Requires no additional time as the pipe is reamed at the same time the thread is cut.

The machine is shipped assembled and ready for operation. Furnished complete with ½" to 2" die heads and dies, bushings, cutting-off and chamfering tool, reamer, chuck wrench, friction gear wrench, 10 feet of cable with connectors, one gallon of thread cutting oil and pipe support.

A post card is also packed with each machine, which entitles the purchaser

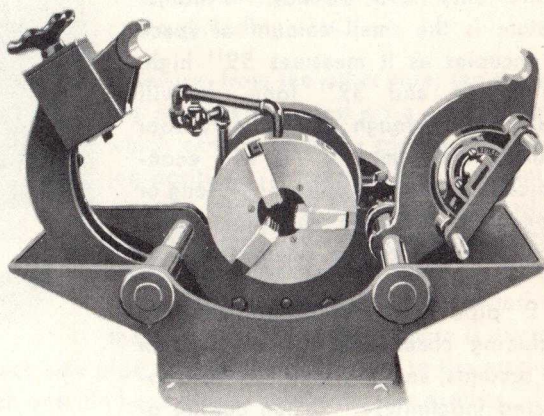


*A pipe support for long lengths of pipe is furnished with each machine at no extra cost.*



to an extra complete set of dies, without charge.

The following additional equipment can be furnished on special order,  $\frac{1}{4}$ " to  $\frac{7}{8}$ " standard bolt dies, die holders, and bolt rod holder, for producing bolts of any length, also 1" bolt die head and 1" bolt die;  $\frac{1}{4}$ " and  $\frac{3}{8}$ " die heads and dies for cutting standard pipe threads, and also special dies for cutting straight, running threads without taper or threads longer than Briggs standard. Quotations furnished on request.

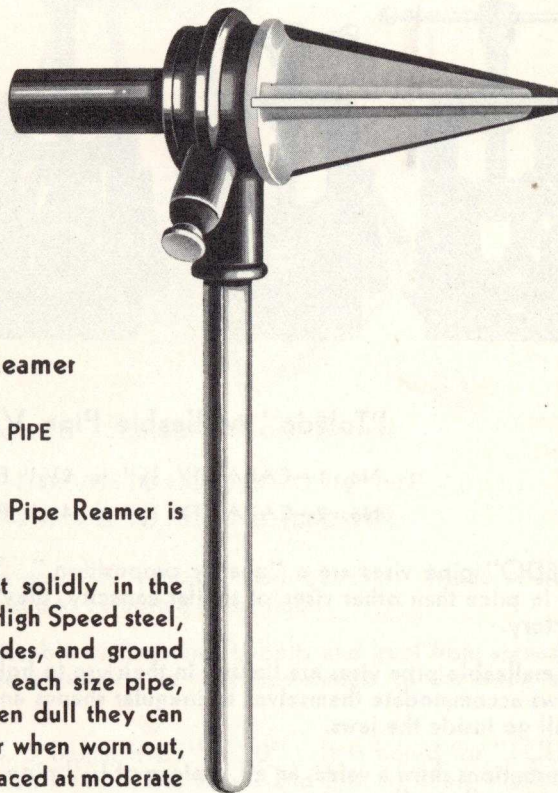


*Here both threading and cutting arms are tipped back, showing the strong, sturdy, non-slipping chuck and wide chip pans, which prevent oil splashing.*

Machine, Extra Parts	List Price	Net Wt.	Ship. Wt.	Code
No. 1000M, with $\frac{1}{2}$ H. P. Motor, complete $\frac{1}{2}$ " to 2" †.....	\$700.00	520 lbs.	641 lbs.	Sperm
Pipe Support.....	15.00	26 lbs.	30 lbs.	Sate
Complete Bolt Die Attachment, only, no dies....	17.00	4 $\frac{1}{2}$ lbs.	5 lbs.	Chime
Bolt Dies, $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ " each.....	4.00	8 oz.	1 lb.	.....
Special 1" Bolt Die Head and 1" Bolt Die .....	20.00	3 lbs.	3 lbs.	Chirp
Cutter Blade, each.....	2.00	4 oz.	1 lb.	Keen
Reamer Blade, each.....	4.00	5 oz.	1 lb.	Kelp
Bushings, each.....	.70	1 $\frac{1}{2}$ lbs.	2 lbs.	.....
1 Complete Set $\frac{1}{2}$ " to 2" Die Heads and Covers, only, less dies.....	26.60	15 $\frac{1}{2}$ lbs.	17 lbs.	Chop
$\frac{1}{2}$ " Die Head and Cover only, less dies.....	4.00	2 lbs.	2 lbs.	Claim
$\frac{3}{4}$ " Die Head and Cover only, less dies.....	4.00	2 lbs.	2 lbs.	Circus
1" Die Head and Cover only, less dies.....	4.40	2 $\frac{1}{2}$ lbs.	3 lbs.	Clay
1 $\frac{1}{4}$ " Die Head and Cover only, less dies.....	4.40	2 $\frac{1}{2}$ lbs.	3 lbs.	Cloud
1 $\frac{1}{2}$ " Die Head and Cover only, less dies.....	4.80	3 $\frac{1}{4}$ lbs.	4 lbs.	Cliff
2" Die Head and Cover only, less dies.....	5.00	3 $\frac{1}{2}$ lbs.	4 lbs.	Clue
$\frac{1}{4}$ " Die Head and Cover only, less dies.....	5.00	2 lbs.	2 lbs.	Chub
$\frac{3}{8}$ " Die Head and Cover only, less dies.....	5.00	2 lbs.	2 lbs.	Cuff
1 Complete Set $\frac{1}{2}$ " to 2" Dies only.....	22.00	1 $\frac{1}{4}$ lbs.	2 lbs.	Alarm
1 Set $\frac{1}{2}$ " or $\frac{3}{4}$ " R. H. Carbon Steel Dies only, per set.....	2.00	2 oz.	1 lb.	*
1 Set 1" or 1 $\frac{1}{4}$ " R. H. High Speed Steel Dies only, per set.....	4.00	4 oz.	1 lb.	*
1 Set 1 $\frac{1}{2}$ " or 2" R. H. High Speed Steel Dies only, per set.....	5.00	4 oz.	1 lb.	*
1 Set $\frac{1}{4}$ " or $\frac{3}{8}$ " R. H. Carbon Steel Dies only, per set.....	2.00	2 oz.	1 lb.	o

\*See code, pages 87 and 88. oSee code, page 86. †When ordering specify type of current to which motor is to be connected. Complete list of repair parts for No. 1000M on page 79.



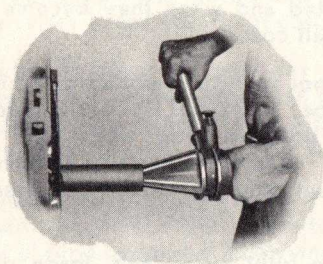


## "Toledo" Ratchet Pipe Reamer

CAPACITY  $\frac{3}{8}$ " to 3" PIPE

The "TOLEDO" Ratchet Pipe Reamer is superior in many ways.

The cutter blades are cast solidly in the head. They are made of High Speed steel, will out-wear ordinary blades, and ground with proper clearance, for each size pipe, assure easier cutting. When dull they can be readily re-sharpened, or when worn out, the entire head can be replaced at moderate cost.



*Note how easily the operator holds the hand grip of the "TOLEDO" ratchet reamer.*

The hand grip is unique and provides an easy, natural position for holding the reamer.

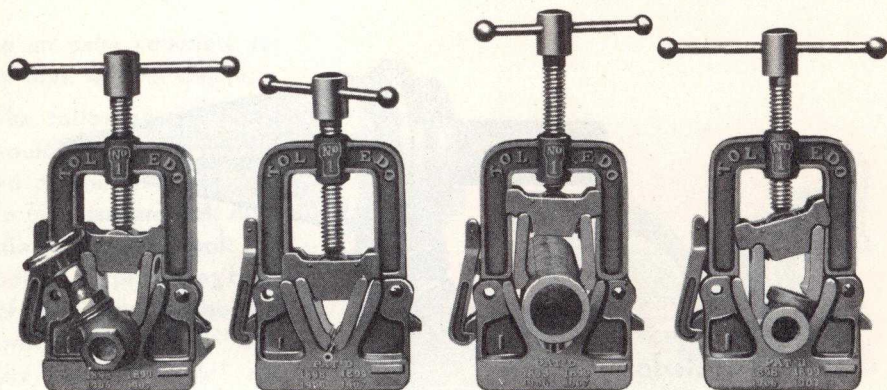
The polished tubular handle is light in weight and unbreakable. The ratchet head is enclosed keeping the moving parts free from dirt, and being unusually large in diameter, assures longer life to the ratchet parts and eliminates handle wobble frequently found in other reamers. Parts that become worn may be easily replaced without purchasing a complete new tool.

Pipe Reamer	List Price	Net Wt.	Ship. Wt.	Code
Ratchet Pipe Reamer, $\frac{3}{8}$ " to 3".....	\$7.00	7 $\frac{1}{4}$ lbs.	8 lbs.	Keel

*Complete list of repair parts for Pipe Reamer on page 82.*







### "Toledo" Malleable Pipe Vises

No. 1—CAPACITY  $\frac{1}{8}$ " to  $2\frac{1}{2}$ " PIPE

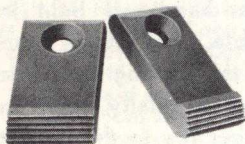
No. 2—CAPACITY  $\frac{1}{8}$ " to  $4\frac{1}{2}$ " PIPE

"TOLEDO" pipe vises are a "quality proposition." While they are somewhat higher in price than other vises of similar capacity, they are most economical and satisfactory.

Other malleable pipe vises are limited in their use to holding pipe. "TOLEDO" vise jaws accommodate themselves to irregular shapes and will hold tight anything that will go inside the jaws.

The illustrations show a valve, an ell, a piece of  $\frac{1}{4}$ " pipe and a piece of  $2\frac{1}{2}$ " pipe, all held equally well.

The jaws are much wider than jaws of ordinary pipe vises and have a much larger gripping surface. They are carefully heat treated and when they become dull may be returned to the factory to be recut at small cost.



The jaws of a "TOLEDO" pipe vise are wide with accurately machined teeth.

While these vises are not sold for use in holding nickel-plated or polished pipe, "TOLEDO" vise jaws do not mar nickel-plated or polished pipe when held tight therein. "TOLEDO" vises are especially adapted for holding electric conduit, and are extensively used by electricians.

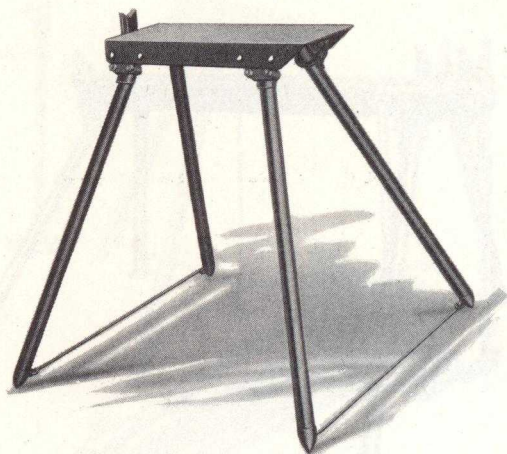
"TOLEDO" vises are fully guaranteed, made of the best obtainable materials, and are the most economical vises in the long run.

Pipe Vise	List Price	Net Wt.	Ship. Wt.	Code
No. 1 Vise, $\frac{1}{8}$ " to $2\frac{1}{2}$ "	\$10.00	18 lbs.	18 lbs.	Harp
No. 2 Vise, $\frac{1}{8}$ " to $4\frac{1}{2}$ "	20.00	48 lbs.	48 lbs.	Hasp

Complete list of repair parts for Vises on page 81.







### "Toledo" Portable Work Bench

No. 5—FOR VISE TO HOLD UP TO  $4\frac{1}{2}$ " PIPE

No. 4—FOR VISE TO HOLD UP TO 2" PIPE

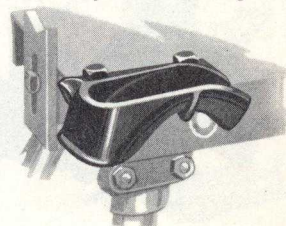
These are very strong and desirable, portable work benches. Made of steel and malleable iron. Do not need to be bolted to the floor.

The legs are held by malleable castings and U-bolts and kept from spreading by steel tie rods. They are adjustable for any unevenness of the floor, and are quickly disassembled.

The table top of the No. 5 Bench is 25" x 10". It is bored for "TOLEDO" pipe vises, Williams Vulcan Chain Vises No. 2 and No. 3, Reed Vises No. 71 and 73, and others with corresponding bolt holes. No. 4 table top is 18" x 7" and bored for "TOLEDO" No. 1, Reed No. 71, Crane No. 1, Williams No. 1 and Armstrong No. 0 vises and others with same bolt holes. Special drilling for other vises is charged for at cost.

Adjustable pipe rest provides ample support for the pipe. These work benches can be furnished on special order with any length table top desired. Quotations on request.

A pipe bender to attach to the No. 5 bench can be furnished on special order. Permits bending 1" or smaller sizes of pipe or conduit easily and will not kink the pipe on short bends.



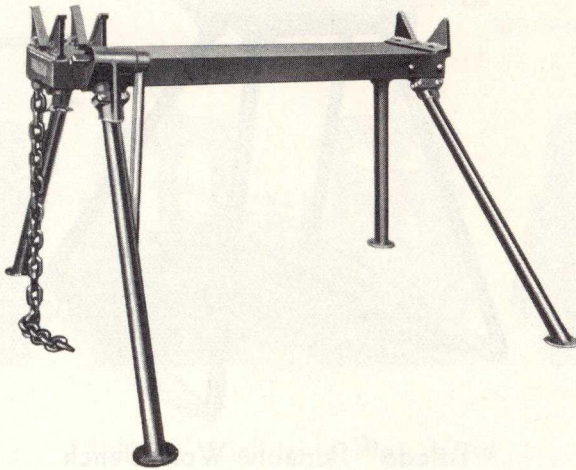
*Pipe benders easily attached.*

Work Bench, Pipe Bender	List Price	Net Wt.	Ship. Wt.	Code
No. 5 Work Bench, for Vise to hold up to $4\frac{1}{2}$ " pipe.....	\$20.00	75 lbs.	75 lbs.	Hoard
No. 4 Work Bench, for Vise to hold up to 2" pipe. ....	17.00	39 lbs.	39 lbs.	Hod
Pipe Bender, capacity up to 1" incl.....	3.50	$4\frac{1}{2}$ lbs.	5 lbs.	Bend

*Complete list of repair parts for Work Benches on page 82.*







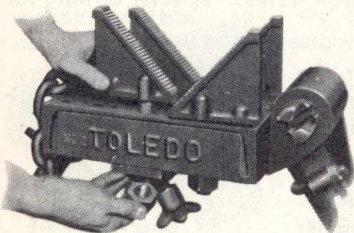
## "Toledo" Portable Work Bench and Chain Vise

No. 9 CAPACITY 2" to 14" PIPE

No. 18 CAPACITY 2" to 18" PIPE

The No. 9 bench and chain vise for holding 2" to 14" pipe is excellent for handling large pipe and heavy work. It is very rigid and strong, and while it is not necessary, it may be bolted to the floor if desired.

The chain vise is of special design, being built up in conjunction with the bench and made a part thereof. The chain is adjustable so that a single downward thrust of the controlling lever grips the pipe tight.



*The vise jaws are adjustable for large or small pipe.*

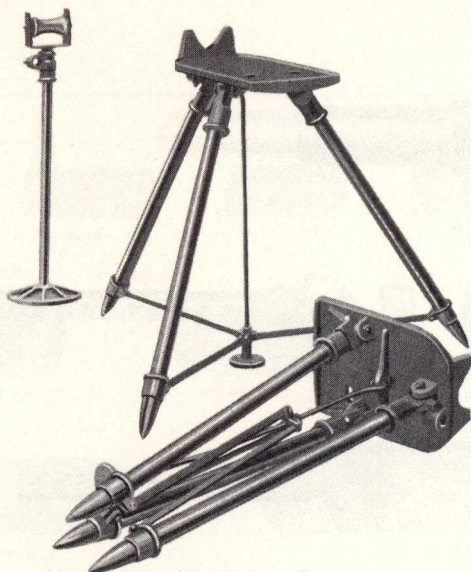
The table top is four feet long and twelve inches wide. Table Tops of any length can be furnished on special order. Quotations on request. The vise jaws are removable and may be returned to the factory for recutting when necessary.

It can also be furnished to hold up to 18" O. D. pipe. This bench, the No. 18, is larger and heavier, and the table top is six feet long and 15" wide. A wonderful bench for extra large pipe.

These work benches are practically indestructible and will give years of satisfactory service.

Work Bench	List Price	Net Wt.	Ship. Wt.	Code
No. 9, with Chain Vise to hold 2" to 14" Pipe..	\$100.00	210 lbs.	265 lbs.	Hum
No. 18, with Chain Vise to hold 2" to 18" O. D. Pipe.....	\$210.00	375 lbs.	450 lbs.	Home





### "Toledo" Vise Mounts and Roller Support

The "TOLEDO" Vise Mount is a strong, portable work bench. It is instantly set up, always ready for use. When carried from job to job the legs are folded up much like an umbrella, making a "TOLEDO" Vise Mount extremely portable. A very popular work bench with plumbers and electricians.

The top may be drilled to fit any vise if template is furnished. Special drilling is charged for at cost.

The vise mount is made in three sizes, as listed below, to suit requirements.

The roller support shown in the illustration above, is used for holding long lengths of pipe, and can be connected to the vise mount by using a length of  $\frac{3}{4}$ " pipe inserted through holes in both the vise mount and the roller support for that purpose.

The No. 0 mount is large enough for a vise to hold up to 1" pipe, the No. 1 for a vise to hold up to  $2\frac{1}{2}$ " and the No. 2 for a vise to hold up to  $4\frac{1}{2}$ " pipe.

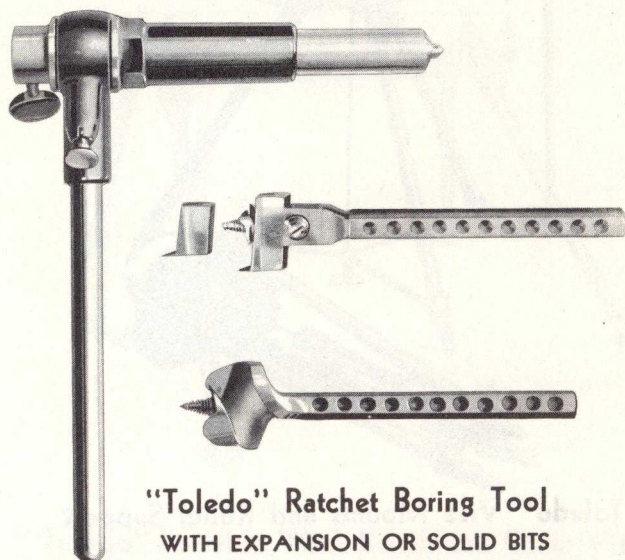


*It's easy to carry a "TOLEDO" vise mount.*

Vise Mounts, Roller Support	List Price	Net Wt.	Ship. Wt.	Code
No. 0, for Vise to hold up to 1" pipe ....	\$12.00	36 lbs.	36 lbs.	Hazard
No. 1, for Vise to hold up to $2\frac{1}{2}$ " pipe..	15.00	49 lbs.	49 lbs.	Hazel
No. 2, for Vise to hold up to $4\frac{1}{2}$ " pipe..	18.00	85 lbs.	85 lbs.	Hearty
Roller Support.....	5.00	18 lbs.	18 lbs.	Health

Complete list of repair parts for "TOLEDO" Vise Mounts and Roller Support on page 83.





**"Toledo" Ratchet Boring Tool**  
WITH EXPANSION OR SOLID BITS

This tool is exceedingly efficient and desirable for plumbers, steamfitters and electricians. It bores holes through joists, beams and other wood members of buildings, where parallel or adjoining timbers interfere with the use of brace and bit or mallet and chisel.

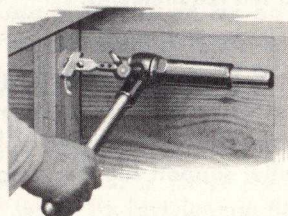
It enables the operator to run pipe or conduit through cleanly bored holes, without sacrificing the strength of weight-carrying timbers.

The bit is automatically fed by means of a strong steel spring contained in the telescopic barrel of the tool, and the ratchet handle makes it easy to operate the tool in the most confined quarters.

The bits have a long shank, providing a range of adjustment of approximately 6".

The tool has been found to be especially valuable on remodeling jobs where piping is required to be installed in structures already built.

It is furnished with either the expansion bit, which will bore holes from 1 $\frac{1}{4}$ " to 2 $\frac{1}{2}$ " in diameter, or with one or more of the solid bits that are listed below. Each tool is packed in a carton.

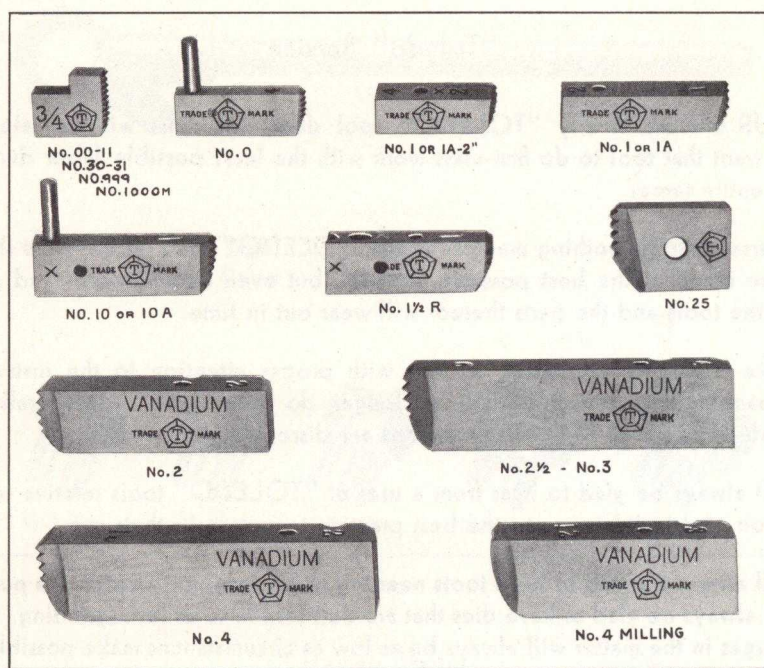


*Bit is fed automatically.*

Tool, Extra Bits	List Price	Net Wt.	Ship. Wt.	Code
Boring Tool, Only without bits.....	\$15.00	5 lbs.	6 lbs.	Hawser
Expansion Bit, 1 $\frac{1}{4}$ " to 2 $\frac{1}{2}$ " inclusive.....	9.00	1 lb.	1 lb.	Hansom
2 $\frac{1}{2}$ " Solid Bit.....	6.00	15 oz.	1 lb.	Haze
2" Solid Bit.....	4.50	13 oz.	1 lb.	Heart
1 $\frac{1}{2}$ " Solid Bit.....	3.00	12 oz.	1 lb.	Heap
1" Solid Bit.....	2.20	10 oz.	1 lb.	Hectic

*Complete list of repair parts for Ratchet Boring Tool on page 84.*





## Genuine "TOLEDO" Dies

The above illustration shows a single die segment of each of the various types used in "TOLEDO" pipe threaders. We show these illustrations so there may be no confusion in the mind of the jobber or user of "TOLEDO" tools as to which particular model any given set of dies may be for.

The illustration shows these various die segments approximately one-half the actual size.

The markings on the dies may also be of interest. The trade-mark that appears on all genuine "TOLEDO" dies, is the equivalent of our signature guaranteeing quality. The word "Vanadium" that appears on some of the segments, indicates the nature of the alloy from which those dies are made. Some of the dies are made of tungsten high speed steel, others are made of a special high carbon alloy. The variation in the kinds of steel used, being the result of years of experience as to which will give the best possible service.



*The Trade-Mark Appears Only On Genuine "TOLEDO" Dies. Our Guarantee of "TOLEDO" Quality.*

**BUY BY COMPARISON AND YOU WILL BUY GENUINE "TOLEDOS"**





## "Toledo" Service

**O**UR interest in any "TOLEDO" tool does not cease with its sale. We want that tool to do first-class work with the least possible labor during its entire career.

Of course, there is nothing magical about "TOLEDO" tools or the parts thereof. They are made of the best possible material, but even under normal and proper usage, the tools and the parts thereof will wear out in time.

What we desire to emphasize is, that with proper attention to the instructions accompanying each tool same will last longer, do better work and generally give more satisfaction than if these suggestions are disregarded.

We will always be glad to hear from a user of "TOLEDO" tools relative to their condition, and to advise as to the best practice to pursue in their use.

We will always be glad to have tools needing repairs sent in to us for this purpose; we will always be glad to have dies that are dull sent in to us for regrinding. And our charges in the matter will always be as low as circumstances make possible.



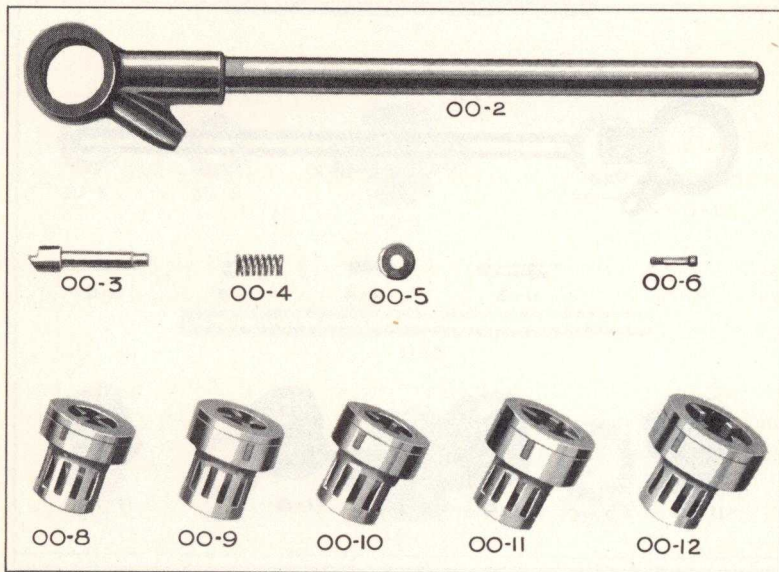
## When In Need Of Repairs

Please bear in mind that most of the parts of modern hand-operated threading tools are moving parts, and subject to wear. Therefore, when a tool needs a die head, or a pipe holder, or a gear part, it is practically certain that the remaining portions of the tool have been worn through use and will also need attention, or perhaps replacement. In your own interest, it will be wise for you, under these circumstances, to send to us the complete tool body, together with all the dies belonging thereto, with instructions to put the whole outfit in proper working order.

When a new die segment is wanted for a set of old dies, do not ask us to supply that segment unless you send to us all the remaining parts of the set of dies referred to, so that the new segment may be properly matched in.

Where we advise the return of various parts of the tools on the following pages, these suggestions are based on years of experience and with the sole thought of taking care of the customer's needs in the most economical and satisfactory manner for him, and we urge therefore that they be complied with.





## Repair Parts

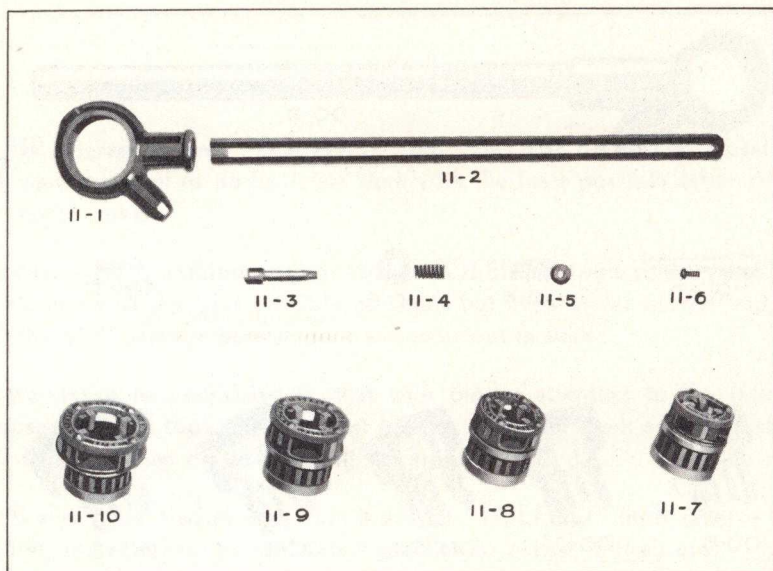
### No. 00

Number		Price
	Dies, R. H., complete set.....	\$10.00
	Dies, R. H., single set.....	2.00
	Special Die Heads with U. S. S. Bolt Dies, $\frac{1}{4}$ " to $\frac{7}{8}$ ", each.....	3.00 Net
	U. S. S. Bolt Dies, only, $\frac{1}{4}$ " to $\frac{7}{8}$ ", each.....	2.00 Net
	Ratchet Handle, complete (with Ratchet Pawl).....	3.00
00-2	Ratchet Head and Handle only (without Ratchet Pawl).....	2.00
00-3	Ratchet Pawl.....	.60
00-4	Ratchet Spring.....	.20
00-5	Ratchet Pawl Knob.....	.30
	Ratchet Pawl, complete.....	1.10
	Die Head Cover, only.....	.40
*00-6	Die Head Cover Screw.....	.08
00-8	$\frac{1}{8}$ -inch Die Head with Dies.....	3.00
00-9	$\frac{1}{4}$ -inch Die Head with Dies.....	3.00
00-10	$\frac{3}{8}$ -inch Die Head with Dies.....	3.00
00-11	$\frac{1}{2}$ -inch Die Head with Dies.....	3.50
00-12	$\frac{3}{4}$ -inch Die Head with Dies.....	3.50

\*When ordering 00-6 Die Head Cover Screws always specify for what size Die Head. When ordering repair parts, first read carefully and follow the instructions on page 58.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





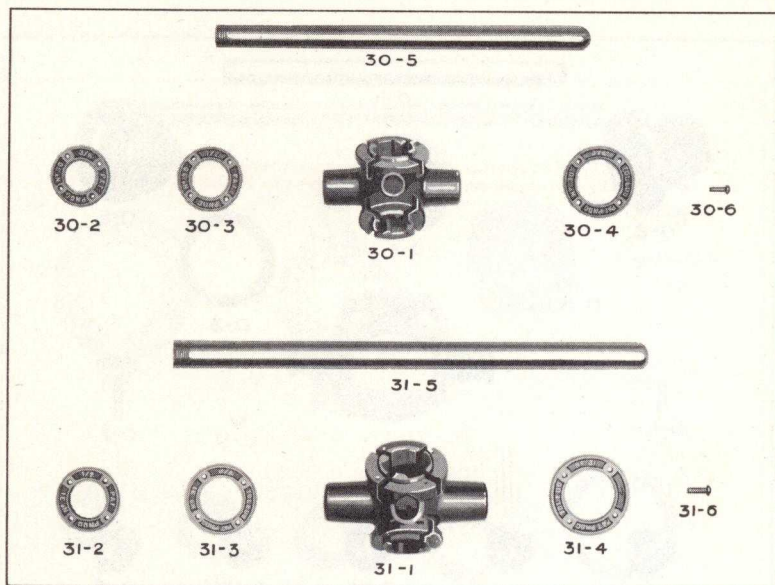
## Repair Parts No. 11

Number	Price
Dies, R. H., complete set.....	\$ 9.00
Dies, R. H., single set $\frac{1}{2}$ or $\frac{3}{4}$ -inch.....	2.00
Dies, R. H., single set 1 or $1\frac{1}{4}$ -inch.....	2.50
Ratchet Handle, complete.....	4.00
11-1 Ratchet Head.....	1.00
11-2 Handle, only.....	1.25
11-3 Ratchet Pawl.....	.60
11-4 Ratchet Spring.....	.20
11-5 Ratchet Pawl Knob.....	.30
Ratchet Pawl, complete.....	1.10
Die Head Cover (Specify Size).....	.60
11-6 Die Head Cover Screw, each.....	.05
11-7 $\frac{1}{2}$ -inch Die Head with Dies.....	5.00
11-8 $\frac{3}{4}$ -inch Die Head with Dies.....	5.00
11-9 1-inch Die Head with Dies.....	5.00
11-10 $1\frac{1}{4}$ -inch Die Head with Dies.....	5.00
Special $\frac{3}{8}$ -inch Die Head with Dies.....	5.00

When ordering repair parts, first read carefully and follow the instructions on page 58, and always specify the serial number and the prefixing letter, if any, which appear on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





### Repair Parts No. 30 and No. 31

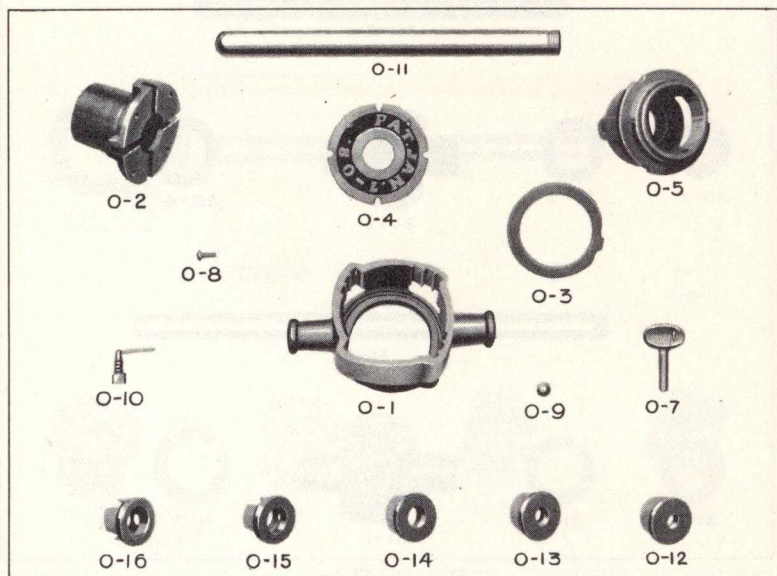
No. 30		Price
Number		
	Dies, R. H., complete set.....	\$ 6.00
	Dies, R. H., single set.....	2.00
30-1	Body, only.....	5.50
30-2	$\frac{3}{8}$ -inch Die Head Cover.....	.60
30-3	$\frac{1}{2}$ -inch Die Head Cover.....	.60
30-4	$\frac{3}{4}$ -inch Die Head Cover.....	.60
30-5	Handles, pair.....	2.25
30-6	Head Cover Screws, each.....	.05

No. 31		
	Dies, R. H., complete set.....	\$ 6.50
	Dies, R. H., single set $\frac{1}{2}$ or $\frac{3}{4}$ -inch.....	2.00
	Dies, R. H., single set 1-inch.....	2.50
31-1	Body only.....	7.00
31-2	$\frac{1}{2}$ -inch Die Head Cover.....	.60
31-3	$\frac{3}{4}$ -inch Die Head Cover.....	.60
31-4	1-inch Die Head Cover.....	.60
31-5	Handles, pair.....	2.50
31-6	Head Cover Screws, each.....	.05

When ordering repair parts, first read carefully and follow the instructions on page 58, and always specify the serial number and the prefixing letter, if any, which appear on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





### Repair Parts

#### No. 0

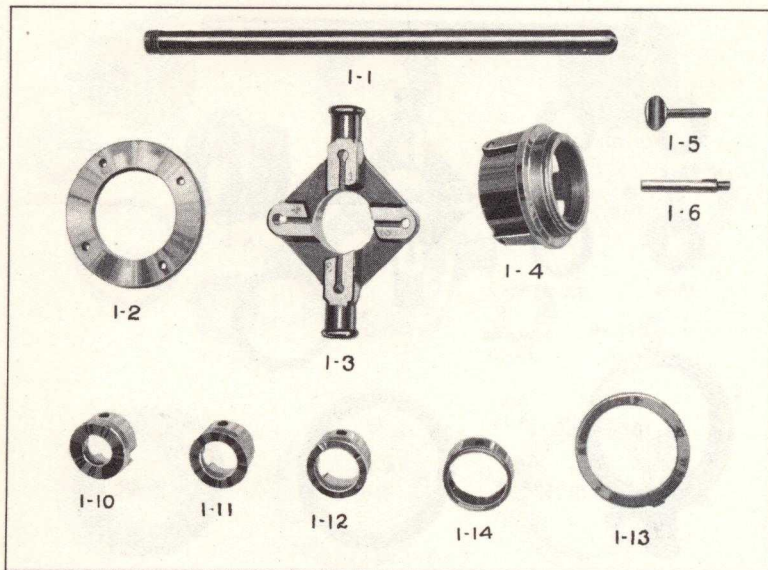
Number		Price
	Dies, R. H., complete set.....	\$ 7.50
	Dies, R. H., single set.....	2.50
	Dies, L. H., complete set.....	12.50
	Dies, L. H., single set.....	2.50
0-1	Die Head Case.....	3.75
*0-2	Die Head.....	2.25
0-3	Retaining Ring.....	.50
0-4	Die Head Cover.....	1.25
*0-5	Pipe Holder.....	2.25
0-7	Thumb Screw, each.....	.25
0-8	Cover Screw, each.....	.05
0-9	Die Spring Discs, each.....	.05
0-10	Locking Pin and Spring, each.....	.35
0-11	Handles, pair.....	2.00
0-12	1/8-inch Bushing.....	.30
0-13	1/4-inch Bushing.....	.30
0-14	3/8-inch Bushing.....	.30
0-15	1/2-inch Bushing.....	.30
0-16	3/4-inch Bushing.....	.30

*\*When either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58.*

*When ordering repairs always specify the serial number and prefixing letter, if any, which appear on the brass name plate of the tool.*

*Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.*





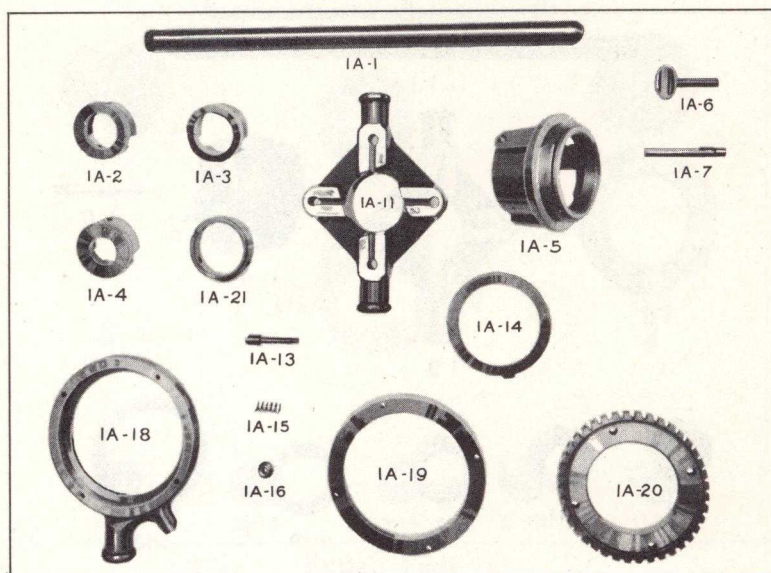
### Repair Parts No. 1

Number		Price
	Dies, complete set.....	\$10.00
	Dies, single set.....	2.50
1-1	Handle, pair.....	2.50
1-2	Taper Pin Plate.....	3.00
*1-3	Die Head.....	4.50
*1-4	Pipe Holder.....	3.00
1-5	Thumb Screws, each.....	.20
1-6	Taper Pin, each.....	.40
	Die Retaining Spring.....	} Not Illustrated, one of each ..... .20
	Die Retaining Spring Nail.....	
	Die Retaining Pin.....	
1-10	1 -inch Bushing.....	.50
1-11	1 1/4-inch Bushing.....	.50
1-12	1 1/2-inch Bushing.....	.50
1-14	2 -inch Bushing.....	.50
1-13	Retaining Ring.....	1.50

\*When either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58. Repair parts for the No. 1 tool are subject to discounts differing from those applying to complete tools. See current discount sheet. When ordering repairs always specify the serial number and the prefixing letter, if any, which appear on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





## Repair Parts No. 1A

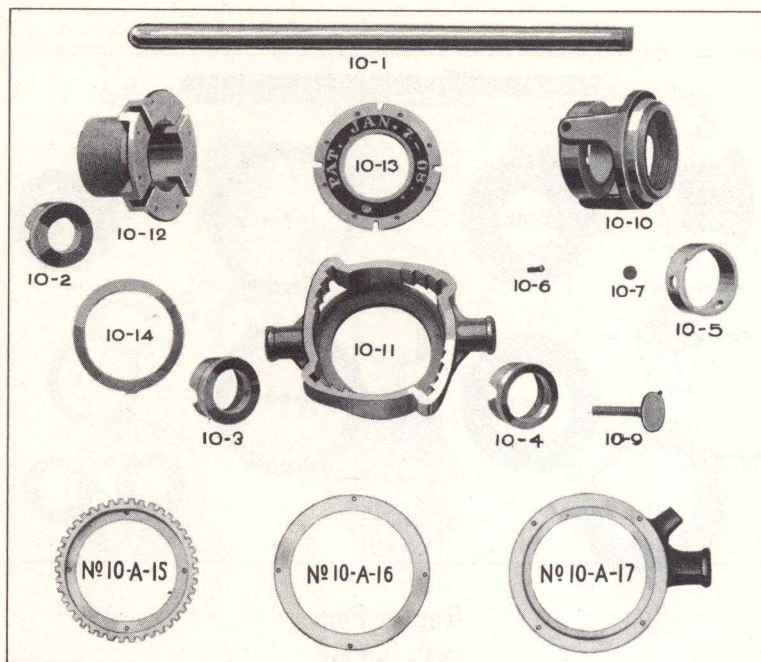
Number	Price	Number	Price
	Dies, R. H., complete set....	\$10.00	Not illustrated—
	Dies, R. H., single set.....	2.50	Die Retaining Spring
1A-1	Handle, per pair.....	2.50	Die Retaining Spring one
1A-2	1 1/4-inch Bushing.....	.50	Nail..... of
1A-3	1 1/2-inch Bushing.....	.50	Die Retaining Pin ... each \$
1A-4	1 inch Bushing.....	.50	Ratchet Case Screw, each..
1A-21	2-inch Bushing.....	.50	*1A-11 Die Head.....
*1A-5	Pipe Holder.....	3.00	1A-13 Ratchet Pawl.....
1A-6	Thumb Screw, each.....	.20	1A-14 Retaining Ring.....
1A-7	Taper Pin, each.....	.40	1A-15 Ratchet Spring.....
			1A-16 Ratchet Pawl Knob.....
			1A-18 Ratchet Case.....
			1A-19 Ratchet Case Cover.....
			1A-20 Taper Pin Plate.....

\*When either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58.

Repair parts for the No. 1A tool are subject to discounts differing from those applying to complete tools. See current discount sheet. When ordering repairs always specify the serial number and the prefixing letter, if any, which appear on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





### Repair Parts No. 10 and No. 10A

Number	Price
* Dies, R. H., per set of 4 pieces.	\$ 2.75
* Dies, L. H., complete set	11.00
* Dies, L. H., single set	2.75
10-1 Handles, pair	2.50
10-2 1 -inch Bushing	.50
10-3 1 1/4-inch Bushing	.50
10-4 1 1/2-inch Bushing	.50
10-5 2 -inch Bushing	.50
10-6 Die Head Cover Screws, each	.10
10-7 Die Spring Discs, each	.05
10-9 Thumb Screws, each	.20
x10-10 Pipe Holder	4.50
10-11 Die Head Case	9.00

Number	Price
x10-12 Die Head	\$ 4.00
10-13 Die Head Cover	1.85
10-14 Retaining Ring	1.50
Parts additional to No. 10 to make No. 10-A	

Number	Price
10A-15 Ratchet Plate	\$ 3.50
10A-16 Ratchet Case Cover	1.30
10A-17 Ratchet Case	3.50
Not illustrated	
Ratchet Pawl	.60
Ratchet Pawl Spring	.20
Ratchet Case Screws, each	.10
Ratchet Pawl Knob	.30
Rivets, each	.05

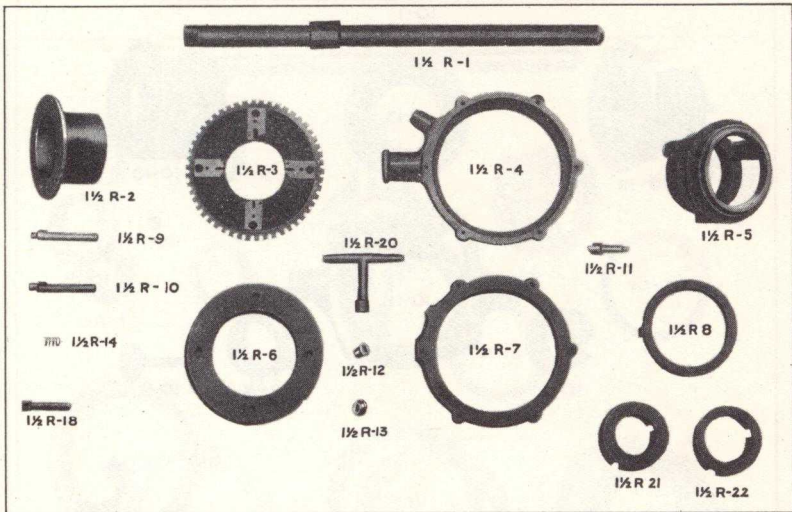
\*Right hand dies sell at list: left hand dies subject to discount. See current discount sheet.

xWhen either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58.

When ordering repairs always specify the serial number and the prefixing letter, if any, which appear on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





## Repair Parts

### No. 1 1/2 R

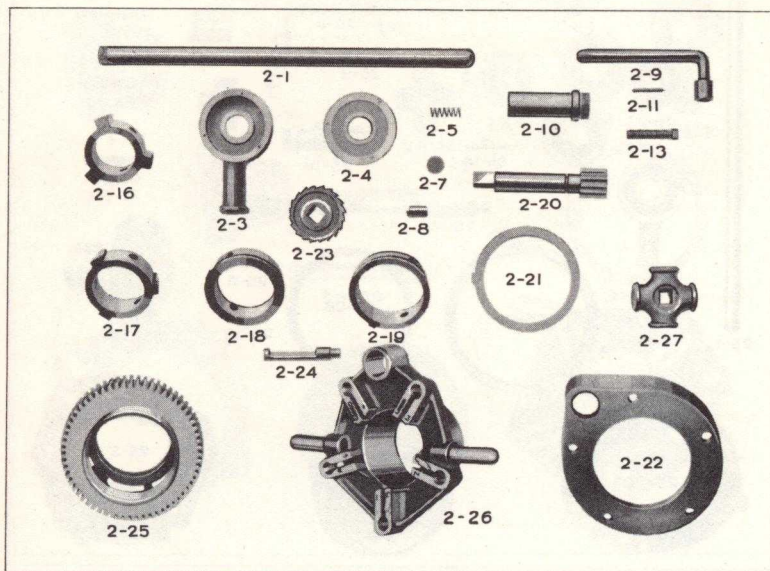
Number	Price	Number	Price
Dies, complete set (11 1/2-thread).....	\$12.00	1 1/2 R-12 Ratchet Bushing.....	\$ .60
Dies, complete set (8-thread).....	8.00	1 1/2 R-13 Ratchet Knob.....	.30
Dies, single set.....	4.00	1 1/2 R-14 Ratchet Spring.....	.20
1 1/2 R-1 Handle.....	3.00	Not illustrated	
*1 1/2 R-2 Lead Screw.....	3.60	Ratchet Case Screws, each..	.10
1 1/2 R-3 Ratchet Die Head.....	6.00	Die Head Rivets, each....	.05
1 1/2 R-4 Ratchet Case.....	4.50		
*1 1/2 R-5 Pipe Holder.....	6.00	1 1/2 R-18 Set Screws, each.....	.20
1 1/2 R-6 Taper Pin Plate.....	3.60	Not illustrated	
1 1/2 R-7 Ratchet Cover.....	2.00	Die Retaining Spring.....	} one of each
1 1/2 R-8 Retaining Ring.....	1.50	and Pin.....	
1 1/2 R-9 Taper Pins, long, each..	.75	Die Retaining Spring.....	
1 1/2 R-10 Taper Pins, short, each..	.75	Screw.....	
1 1/2 R-11 Ratchet Pawl.....	.60	1 1/2 R-20 Set Screw Wrench.....	.60
		1 1/2 R-21 2-inch Bushing (for special tool).....	.90
		1 1/2 R-22 2 1/2-inch Bushing.....	.90

\*When either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58.

NOTE—In ordering parts for this tool it will be necessary to state whether it is a Standard Pipe Thread Tool (8-thread), or one of the special (11 1/2-thread) tools. This tool is made both ways and all parts are not interchangeable. When ordering repairs always specify the serial number and the prefixing letter, if any, which appear on the brass name plate of tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





## Repair Parts

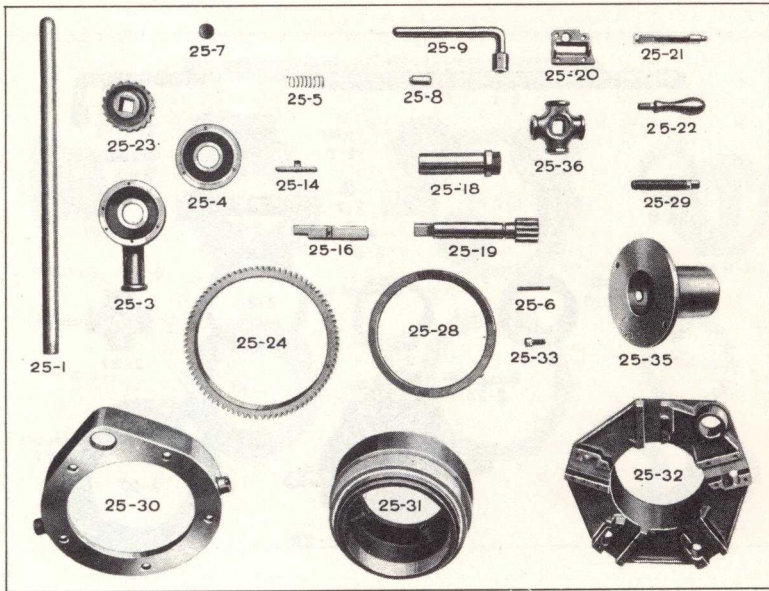
### No. 2

Number	Price	Number	Price
* Dies, complete set.....	\$32.00	Not illustrated	
* Dies, single set.....	8.00	Die Retaining Spring Screw } one	
Ratchet, complete.....	7.00	Die Retaining Spring } of \$ .20	
2-1 Handle.....	2.00	Die Retaining Pin.....	each
Not illustrated		2-16 2 1/2-inch Bushing.....	1.80
Lifting Handles, each.....	1.25	2-17 3 -inch Bushing.....	1.80
Ratchet Cover Screw.....	.10	2-18 3 1/2-inch Bushing.....	1.80
2-3 Ratchet Case.....	3.00	2-19 4 -inch Bushing.....	1.80
2-4 Ratchet Case Cover.....	1.00	o2-20 Driving Pinion.....	5.00
2-5 Ratchet Spring.....	.20	2-21 Retaining Ring.....	2.00
2-7 Ratchet Spring Washer.....	.10	2-22 Taper Pin Plate.....	4.00
2-8 Ratchet Pawl.....	.60	2-23 Ratchet Wheel.....	1.50
2-9 Set Screw Wrench.....	.60	2-24 Taper Pin, each.....	.60
o2-10 Pinion Sleeve.....	3.50	x2-25 Gear.....	17.00
2-11 Pinion Retaining Pin.....	.10	x2-26 Die Head.....	20.00
2-13 Set Screw, each.....	.20	2-27 Driving Cross.....	1.00

\*Subject to special discounts. See current discount sheet. oWhen either one of these parts is required, the other part should be returned so the new one can be properly fitted, or both parts should be ordered to insure a proper fit. xWhen either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58. When ordering repairs always specify the serial number and prefixing letter, if any, which appear on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





## Repair Parts No. 25

Number	Price	Number	Price
	Ratchet, complete.....	o25-18	Pinion Sleeve.....\$ 5.00
25-1	Handle..... 2.00	o25-19	Driving Pinion..... 7.00
	Not illustrated	25-20	Die Head Cover, each..... .80
	Ratchet Case Screw, each..... .10	25-21	Taper Pin, each..... 3.00
25-3	Ratchet Case..... 3.00	25-22	Lifting Handle, each..... 1.50
25-4	Ratchet Case Cover..... 1.00	25-23	Ratchet Wheel..... 1.50
25-5	Ratchet Spring..... .20	x25-24	Gear Band..... 20.00
25-6	Pinion Retaining Pin..... .10		Not illustrated
25-7	Ratchet Washer..... .10		Die Holder Spring, each ... .10
25-8	Ratchet Pawl..... .60	*	Die Holder Pawl, each..... 1.00
25-9	Set Screw Wrench..... .60		Die Holder Pawl Pin, each.. .10
	Not illustrated	25-28	Retaining Ring..... 4.00
	Die Retaining Screw, each.... .30	25-29	Set Screw, each..... 1.25
	Taper Pin Washer, each..... .10	25-30	Taper Pin Plate..... 8.00
	Die Collar, each..... .10	x25-31	Pipe Holder..... 30.00
	Dies, per set of 5 segments... 8.00	x25-32	Die Head..... 45.00
*25-14	Adjusting Ratchet, each..... 4.00	25-33	Bushing Screw, each..... .30
	Not illustrated		Not illustrated
	Die Holder Spring Cover, each .10		Die Head Button, each..... .10
*25-16	Die Holder, each..... 5.00	25-35	Bushing (2½", 3", 3½", 4", 4½" or 5"), each..... 5.00
	Not illustrated	25-36	Driving Cross..... 1.00
	Head Cover Screw, each..... .10		

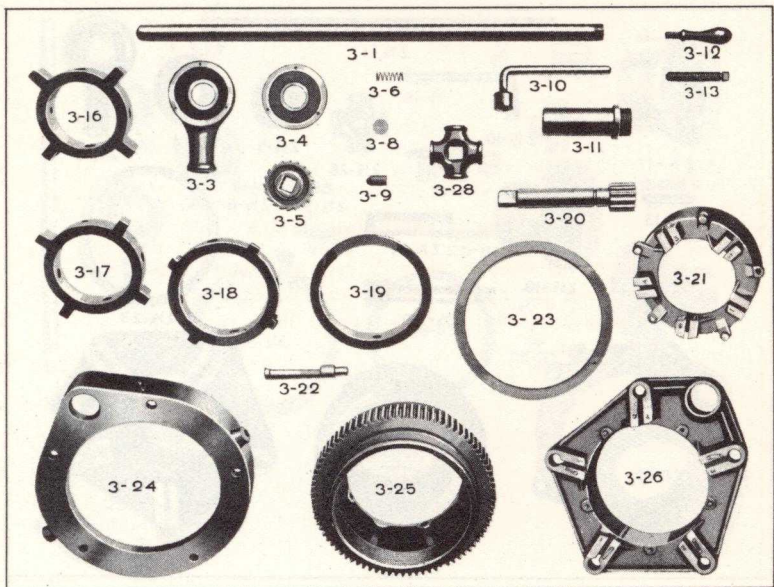
\*When these parts are ordered the old parts must be returned to the factory in order to properly match up new parts. oWhen either one of these parts is required, the other part should be returned so the new one can be properly fitted, or both parts should be ordered to insure a proper fit. xWhen any of these parts are required, they must be ordered together, or complete tool body returned to the factory for proper repairs. We recommend the latter. See instructions on page 58. When ordering repairs it is absolutely necessary that you specify serial number and prefixing letter, if any, which appear on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.









## Repair Parts No. 3

Number	Price	Number	Price
Dies, complete set.....	\$60.00	Not illustrated	
Dies, single set.....	12.00	Die Retaining Spring and Pin } one	
Ratchet, complete.....	9.00	Die Retaining Spring Screw } each	.20
3-1 Handle.....	2.50	3-16 4 1/2-inch Bushing.....	5.00
Not illustrated		3-17 5 -inch Bushing.....	5.00
Ratchet Cover Screw, each.....	.10	3-18 6 -inch Bushing.....	5.00
Pinion Retaining Pin.....	.10	3-19 7 -inch Bushing.....	5.00
3-3 Ratchet Case.....	3.50	Special 8-inch Bushing.....	7.00
3-4 Ratchet Case Cover.....	1.00	3-20 Driving Pinion.....	7.00
3-5 Ratchet Wheel.....	1.50	3-21 Die Head Bushing (when this is ordered Die Head must be sent in to us to be fitted)	20.00
3-6 Ratchet Spring.....	.20	3-22 Taper Pin, each.....	3.00
3-8 Ratchet Spring Washer.....	.10	3-23 Retaining Ring.....	5.00
3-9 Ratchet Pawl.....	.60	3-24 Taper Pin Plate.....	10.00
3-10 Set Screw Wrench.....	.60	x3-25 Gear.....	65.00
3-11 Pinion Sleeve.....	5.00	x3-26 Die Head (exclusive of die head bushing).....	80.00
3-12 Lifting Handle, each.....	1.50	Not illustrated	
3-13 Set Screw, each.....	.40	Die Head Bushing Screw.....	.10
		3-28 Driving Cross.....	1.00

oWhen either one of these parts is required, the other part should be returned so the new one can be properly fitted, or both parts should be ordered to insure a proper fit. xWhen either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58. When ordering repairs always specify the serial number which appears on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.



### No. 4 Threading Device

For illustration of parts see preceding page.  
Parts for No. 4 are of same general appearance as No. 3 parts, except they are much larger.

### Repair Parts

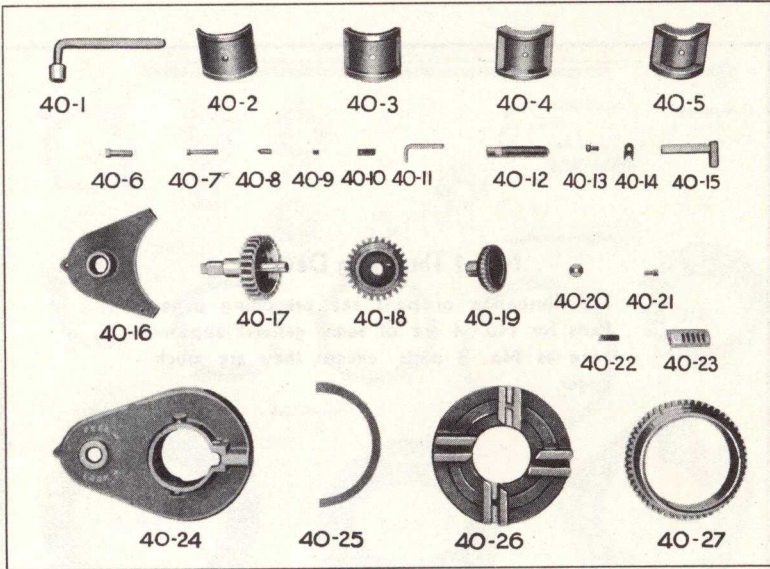
#### No. 4

Number	Price	Number	Price
Dies, complete set.....	\$60.00	Not illustrated	
Dies, single set.....	20.00	Die Retaining Spring and Pin } one	
Ratchet, complete.....	9.00	Die Retaining Spring Screw } of	
4-1 Handle.....	2.50		each \$ .20
Not illustrated		4-16 10-inch Bushing.....	12.00
Ratchet Cover Screw, each....	.10	4-17 9-inch Bushing.....	12.00
Pinion Retaining Pin.....	.10	o4-20 Driving Pinion.....	30.00
4-3 Ratchet Case.....	3.50	4-21 Die Head Bushing (when this is	
4-4 Ratchet Case Cover.....	1.00	ordered Die Head must be	
4-5 Ratchet Wheel.....	1.50	sent in to us to be fitted)....	25.00
4-6 Ratchet Spring.....	.20	4-22 Taper Pins, each.....	4.50
4-8 Ratchet Spring Washer.....	.10	4-23 Retaining Ring.....	10.00
4-9 Ratchet Pawl.....	.60	4-24 Taper Pin Plate.....	30.00
4-10 Set Screw Wrench.....	.60	x4-25 Gear.....	130.00
o4-11 Pinion Sleeve.....	5.00	x4-26 Die Head.....	160.00
4-12 Lifting Handle, each.....	1.50	4-27 Die Head Bushing Screw....	.10
4-13 Set Screw, each.....	.40	4-28 Driving Cross.....	1.00

oWhen either one of these parts is required, the other part should be returned so the new one can be properly fitted, or both parts should be ordered to insure a proper fit. xWhen either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58. When ordering repairs always specify the serial number which appears on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





## Repair Parts Automatic Pipe Cutters

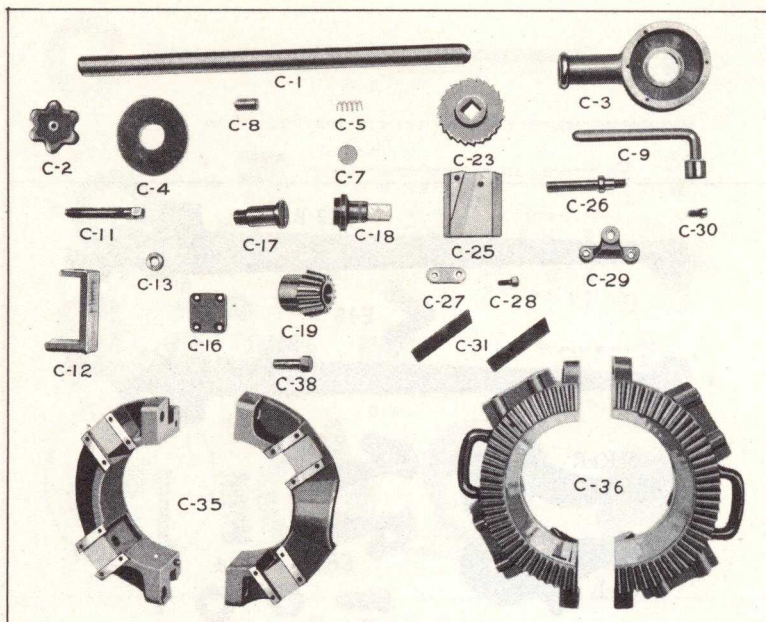
Illustration shows parts for No. 40 pipe cutter, parts for No. 80 cutter are of same general appearance.

	No. 40		No. 80	
	Number	Price	Number	Price
Jaw Wrench.....	40-1	\$ .40	80-1	\$ .40
3 1/2-inch Bushing.....	40-2 (3 1/2")	.70	80-2 (4 1/2")	5.00
3-inch Bushing.....	40-3 (3")	.70	80-3 (5")	5.00
2 1/2-inch Bushing.....	40-4 (2 1/2")	.70	80-4 (6")	5.00
2-inch Bushing.....	40-5 (2")	.70	80-5 (7")	5.00
Face Cap Screw.....	40-6	.20	80-6	.20
Back Cap Screw.....	40-7	.15	80-7	.15
Bushing Retaining Screw.....	40-8	.20	80-8	.40
Oil Hole Screw.....	40-9	.15	80-9	.30
Wrench Spring Clip.....	40-10	.05	80-10	.10
Wrench Spring Clip Screw.....	40-11	.20	80-11	.05
Headless Set Screw Wrench.....	40-12	.40	80-12	.20
Jaw Set Screw.....	40-13	.05	80-13	.40
Sliding Post Clip Screw.....	40-14	.05	80-14	.05
Sliding Post Clip.....	40-15	1.20	80-15	.05
Jaw and Sliding Post.....	(Post .20 Jaw 1.00)	1.50	80-16	1.50
Top Plate.....	40-16	1.50	80-17	2.40
xDriving Pinion.....	40-17	11.50	80-18	11.50
Square Shank End Cap.....	40-18		80-19	
Shank Retaining Pin.....	40-19	1.80	80-20	1.80
xScroll Pinion.....	40-20	.05	80-21	.05
Hand Grip.....	40-21	.05	80-22	.05
Hand Grip Retaining Washer.....	40-22	.60	80-23	.75
Hand Wheel Retaining Washer Screw.....	40-23	1.50	80-24	1.50
oCutter Blade, each.....		.15	80-25	.20
Cutter Block.....	40-24	10.00	80-26	33.00
Cutter Block Screw.....	40-25	1.00	80-27	4.00
Head Case.....		.05		.05
Head Retaining Ring.....	40-26	12.00	80-28	32.00
Head Retaining Ring Screw.....	40-27	15.00	80-29	35.00
Head.....				
Scroll.....				

\*Specify whether Long or Short Cutter Block required. When ordering repairs always specify the serial number which appears on the brass name plate of the tool.

xWhen one or the other of these parts is required the remaining part must be returned to us to have the new part properly fitted. oWhen Single Cutter Blades required remaining blades must be returned to permit proper matching.





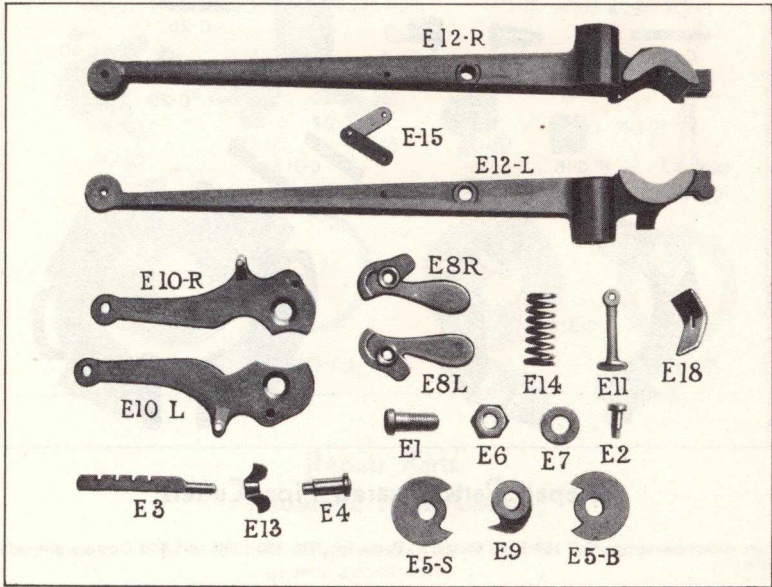
## Repair Parts Geared Pipe Cutters

Illustration shows parts for No. 250 Pipe Cutter. Parts for No. 300, 350 and 400 Cutters are same general appearance.

	No. 250		No. 300		No. 350		No. 400	
	Number	Price	Number	Price	Number	Price	Number	Price
†Ratchet, complete	C-1	\$ 7.00	300-1	\$ 9.00	350-1	\$ 9.00	400-1	\$ 9.00
†Handle	C-2	2.00	300-2	2.50	350-2	2.50	400-2	2.50
†Hand Grip, each	C-3	.50	300-3	.50	350-3	.50	400-3	.50
†Ratchet Case	C-4	3.00	300-4	3.50	350-4	3.50	400-4	3.50
†Ratchet Cover	C-5	1.00	300-5	1.00	350-5	1.00	400-5	1.00
†Ratchet Spring	C-6	.20	300-6	.20	350-6	.20	400-6	.20
†Ratchet Washer	C-7	.10	300-7	.10	350-7	.10	400-7	.10
†Ratchet Pawl	C-8	.60	300-8	.60	350-8	.60	400-8	.60
Set Screw Wrench	C-9	.60	300-9	.60	350-9	.60	400-9	.60
†Ratchet Cover Screws, each	Not Illust.	.10	Not Illust.	.10	Not Illust.	.10	Not Illust.	.10
Set Screws, each	C-11	.40	300-11	.40	350-11	.40	400-11	.40
Chuck Jaw, each	C-12	4.50	300-12	4.50	350-12	4.50	400-12	4.50
Set Screw Collar, each	C-13	.20	300-13	.20	350-13	.20	400-13	.20
Jaw-Plate Screw, each	Not Illust.	.10	Not Illust.	.10	Not Illust.	.10	Not Illust.	.10
Jaw Plate, each	C-16	.50	300-16	.50	350-16	.50	400-16	.50
Pinion Stud	C-17	2.00	300-17	2.00	350-17	2.00	400-17	2.00
*Pinion Shank	C-18	3.00	300-18	3.00	350-18	3.00	400-18	3.00
Pinion	C-19	4.00	300-19	4.00	350-19	5.00	400-19	5.00
†Ratchet Wheel	C-23	1.50	300-23	1.50	350-23	1.50	400-23	1.50
Cutter Block, each	C-25	4.50	300-25	4.50	350-25	4.50	400-25	4.50
Knife-Feed Screw, each	C-26	1.00	300-26	1.00	350-26	1.00	400-26	1.00
Cutter Clamp, each	C-27	.30	300-27	.30	350-27	.30	400-27	.30
Cutter Clamp Screw, each	C-28	.20	300-28	.20	350-28	.20	400-28	.20
Feed Screw Bracket, each	C-29	.80	300-29	.80	350-29	.80	400-29	.80
Feed Screw Bracket Screw, ea.	C-30	.20	300-30	.20	350-30	.20	400-30	.20
xCutter Blades, each	C-31	.80	300-31	.80	350-31	.80	400-31	.80
oChuck Frame	C-35	15.00	300-35	27.00	350-35	37.00	400-35	47.00
oCutter Frame	C-36	18.00	300-36	30.00	350-36	40.00	400-36	50.00
†Frame Clamping Screw, each	C-38	.30	300-38	.30	350-38	.30	400-38	.30

oWhen the chuck or cutter frames are required it is necessary to ship the cutter to us to have these parts properly fitted.  
 xWhen ordering single cutter blades always specify whether "straight" or "bevel" edge required. A complete set must comprise two "straight" and two "bevel" edge blades. \*The pinion shank is designedly made the weakest part of the tool, so it will break under abnormal strain instead of some more expensive part. We are arbitrarily charging a net price of \$1.00 each for these instead of the list price as shown. †Parts marked thus are subject to discount. See current discount sheet. When ordering repairs always specify the part number as well as the serial number of the Cutter, which appears on the brass name plate of the tool.





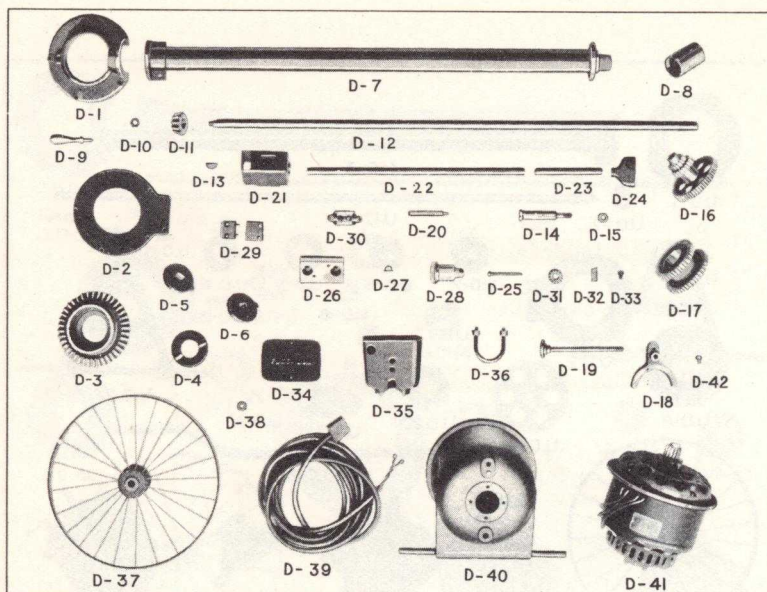
## Repair Parts Vosper Pipe Cutter

The Vosper Pipe Cutter is no longer manufactured. Repairs parts, however, can be furnished on order, as listed.

Number	Price	Number	Price
E1	Cutter Bolt, each.....\$ .20	E9	Guide Shoe, each.....\$ .50
E2	Cam Lever Screw, each..... .15	*E10-R	Right Cutter Arm } Each 1.20
E3	Tie Bar..... .40	*E10-L	Left Cutter Arm }
E4	Shoulder Pins, each..... .15	E11	Spring Connecting Link .... .15
E5-S	Cutter, straight edge	*E12-R	Right Frame.....
E5-B	Cutter, bevel edge } pair ..... 1.00	*E12-L	Left Frame ..... pair ..... 7.25
E6	Cutter Bolt Nut, each..... .20	E13	Thumb Nut, each..... .10
E7	Cutter Bolt Washer, each ..... .12	E14	Spring, each..... .40
E8-R	Right Cam..... .60	E15	Frame Links, set..... .25
E8-L	Left Cam..... .60		Cam Springs, each..... .08
		E18	V Bearing Plates, pair..... .30

*\*When these parts are wanted, tool must be sent to us for repairs. When ordering repairs always specify the serial number of the Cutter, which appears on the brass name plate.*





## Repair Parts Standard Power Drive

Number		Price
D-1	Bevel Gear Case	\$10.00
D-2	Bevel Gear Case Cover	10.00
D-9	Lifting Handle	1.50
D-3	Bevel Gear	14.50
D-4	Driving Bushing Collar	1.25
D-5	No. 3 Driving Bushing	3.50
D-6	No. 2 Driving Bushing	3.50
D-7	Shaft Casing	47.00
D-10	Bevel Pinion Nut	.30
D-11	Bevel Pinion	12.00
D-13	Bevel Pinion Key	.25
D-12	Driving Shaft	8.50
D-14	Motor Gearing Stud	5.75
D-15	Motor Gearing Stud Nut	.30
*D-16	Motor Gearing, incl. Bronze Pinion	22.00
D-31	Motor Pinion and Key	2.30
D-8	Sliding Gear Drum	7.00
D-17	Sliding Gears	15.00
D-32	Sliding Gear Locating Spring	.20
D-33	Sliding Gear Locating Pin	.20
D-18	Shifter Fork and Set Screw	2.10
D-19	Shifter Fork Push Rod and Knob	2.70
D-20	Shifter Fork Stud	1.50
D-21	Switch Box	4.90
D-39	20 Feet Cable & Connector—3 Wire	17.50
	20 Feet Cable & Connector—2 Wire	10.50
D-29	Connector, for 3-Wire Cable	4.80
	Connector, for 2-Wire Cable	4.00
D-30	Toggle Joint Switch	6.00
D-22	Switch Box Conduit	1.20
D-23	Fuse Box Conduit	.50
D-24	Conduit (specify serial number of Drive)	2.00
D-26	Fuse Block	4.00
D-27	Fusible Link	.20

Number		Price
†D-28	Fuse Plug, each	\$ 3.00
D-34	Fuse Box Cover	1.50
D-35	Fuse Box	10.00
D-36	U Bolt	1.90
D-37	Wheel, each	4.00
D-38	Wheel Retaining Washer, each	.10
D-40	Gear Housing (specify serial number of Drive)	62.00
D-41	Motor (specify serial number of Drive)	300.00, 350.00 or 400.00
D-25	Oil Tube	.60
D-42	Oil Hole Cover	.60
	Wheel Retaining Screw, each	.10
	Case Cover Screw, each	.10
	Upper Bearing Screw, each	.15
	Lower Bearing Screw, each	.15
	Sliding Gear Drum Screw, each	.40
	Switch Box Screw, each	.05
	Switch Handle Mechanism	4.80
	Fuse Box Cover Screw, each	.10
	Conduit Screw, each	.05
	Gear Housing Screw, each	.15
	Bronze pinion only, each	11.00
	No. 2 Safety Driving Bushing	4.00
	No. 3 Safety Driving Bushing	4.00

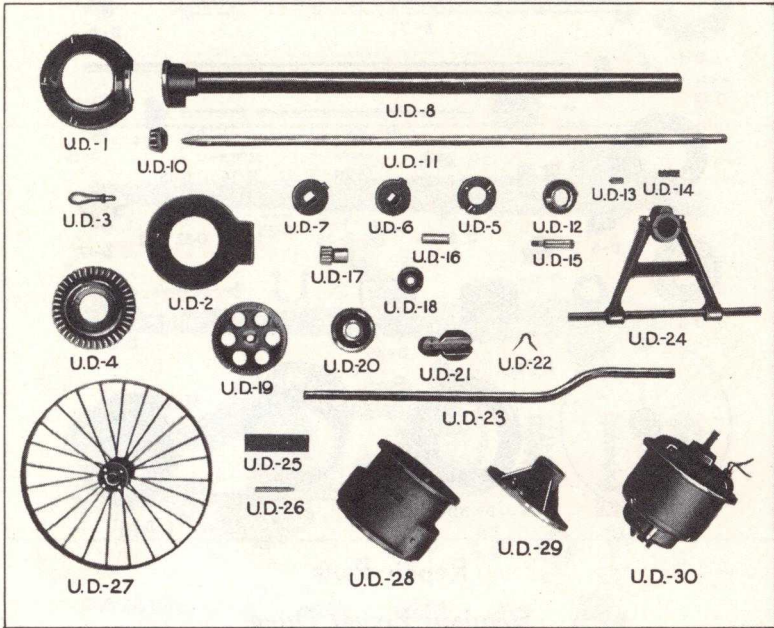
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### MOTOR PARTS

A. C. Brushes, each	.60
A. C. Brush Holder Comp., each	20.00
A. C. Brush Holder Only, each	2.00
A. C. End Plate with Bearing, each	28.00
A. C. End Plate less Bearing, each	20.00
A. C. Motor Grid Cover Plates, ea.	1.50
D. C. Brushes, each	1.40
D. C. Motor Cover Plate, each	2.00
3 Phase A. C. Motor Switch	12.00

When ordering new parts always specify part number as well as serial number of Drive. \*When any part of motor gearing assembly is needed your old assembly should be returned to us for such salvage as possible. †When fuse plugs are required state whether for 110 volt or 220 volt current.



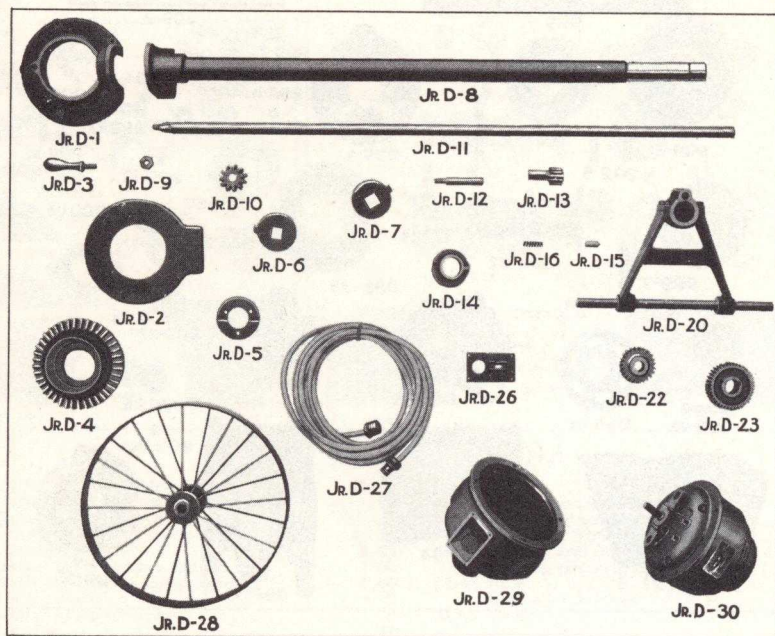


## Repair Parts Universal Power Drive

Number		Price	Number		Price
U.D.-1	Bevel Gear Case	\$10.00	U.D.-21	Switch Base	\$ 3.00
U.D.-2	Bevel Gear Case Cover	10.00		Switch Base Screw, each	.10
U.D.-3	Bevel Gear Case Cover Screw, each	.10		Switch	5.00
U.D.-4	Lifting Handle	1.50		Switch Knob	.60
U.D.-5	Bevel Gear	14.50		Cable with Connector and Plug	12.00
U.D.-6	Driving Bushing Collar	1.25		Plug only	.50
U.D.-7	Driving Bushing Collar Screw, each	.10		Connector only	1.20
U.D.-8	No. 2 Driving Bushing	3.50	U.D.-22	Conduit Clip	.10
U.D.-9	No. 3 Driving Bushing	3.50	U.D.-23	Conduit	1.00
U.D.-10	No. 2 Safety Driving Bushing	4.00		Conduit Clip Screw, each	.05
U.D.-11	No. 3 Safety Driving Bushing	4.00		Wire Cover Screws, each	.05
U.D.-12	Shaft Casing	40.00	U.D.-24	Shaft Casing Saddle	30.00
U.D.-13	Upper Bearing Screw, each	.15		Shaft Casing Saddle Cap	2.00
U.D.-14	Bevel Pinion	12.00		Shaft Casing Saddle Cap Screws, ea.	.10
U.D.-15	Bevel Pinion Nut	.30		Casing Saddle Cover Screw, each	.20
U.D.-16	Pinion Gear Key, each	.20	U.D.-25	Wire Cover Plate	.40
U.D.-17	Driving Shaft	8.50	U.D.-26	Rear Motor Bearing Oiler	.60
U.D.-18	Shaft Casing Collar	2.50	U.D.-27	Wheels, each	4.00
U.D.-19	Shaft Casing Saddle Pawl	.50		Wheel Retaining Screw, each	.10
U.D.-20	Shaft Casing Saddle Pawl Spring	.30	U.D.-28	Wheel Retaining Washers, each	.10
U.D.-21	Shaft Casing Collar Screw, each	.40		Gear Housing	30.00
U.D.-22	Pinion Stud	3.00	U.D.-29	Gear Housing End Plate	14.00
U.D.-23	Gear Stud Nut, each	.30		Gear Housing Screw, each	.15
U.D.-24	Gear Stud Key, each	.10	U.D.-30	Motor	150.00
U.D.-25	Shaft Gear Pinion	2.50		Motor Brush, each	.80
U.D.-26	Shaft Gear Retaining Screw, each	.20		Motor Brush Cap, each	1.00
U.D.-27	Shaft Gear Retaining Washer, each	.30		Motor Bearing Cover Plate	2.00
U.D.-28	Grease Retaining Washer	1.20		Grease Plug, each	.10
U.D.-29	Internal Gear	16.00		Oil Hole Cover, each	.60
U.D.-30	Internal Gear Key	.05		Motor Bearing, each	6.00
U.D.-31	48-Tooth Gear, per pair	20.00			

*When ordering new parts always specify part number as well as serial number of drive.*





## Repair Parts Junior Power Drive

The Junior Power Drive is no longer manufactured, having been replaced by the Universal Drive. Repair parts, however, can be furnished on order as listed.

Number	Price	Number	Price
Jr. D-1	Bevel Gear Case.....\$10. 00	Jr. D-28	Wheels, each.....\$ 4. 00
Jr. D-2	Bevel Gear Case Cover.....10. 00	Jr. D-29	Gear Housing.....50. 00
Jr. D-3	Lifting Handle.....1. 50	*Jr. D-30	Motor.....150. 00
Jr. D-4	Bevel Gear.....14. 50		Wheel Retaining Screw, each.....10
Jr. D-5	Driving Bushing Collar.....1. 25		Wheel Retaining Washer, each.....10
Jr. D-6	No. 2 Driving Bushing.....3. 50		Case Cover Screw, each.....10
Jr. D-7	No. 3 Driving Bushing.....3. 50		Switch Box Cover Screw, each.....05
Jr. D-8	Shaft Casing.....40. 00		Gear Housing Screw, each.....15
Jr. D-9	Bevel Pinion Nut.....30		Casing Saddle Cover Screw, each.....20
Jr. D-10	Bevel Pinion.....12. 00		Oil Hole Cover, each.....60
Jr. D-11	Driving Shaft.....8. 50		Gear Stud Nut, each.....20
Jr. D-12	Gear Stud.....4. 00		Driving Bushing Collar Screw, ea.....10
Jr. D-13	Shaft Gear Pinion.....10. 00		Upper Bearing Screw, each.....15
Jr. D-14	Shaft Casing Collar.....2. 50		Shaft Gear Key, each.....20
Jr. D-15	Shaft Casing Saddle Pawl.....50		Shaft Gear Retaining Screw, ea.....20
Jr. D-16	Shaft Casing Saddle Pawl Spring.....30		Shaft Gear Retaining Washer, ea.....30
	Shaft Casing Collar Screw (Not illus.).....40		Switch.....3. 00
Jr. D-20	Shaft Casing Saddle.....30. 00		Motor Brushes.....60
Jr. D-22	Shaft Gear.....6. 00		End Plate, with Bearing, each.....22. 00
†Jr. D-23	40 Tooth Gear—Per Pair.....16. 00		End Plate Less Bearing, each.....15. 00
Jr. D-26	Switch Cover.....1. 50		No. 2 Safety Driving Bushing.....4. 00
Jr. D-27	Cable with Connector and Plug.....12. 00		No. 3 Safety Driving Bushing.....4. 00
	Plug, only.....50		
	Connector, only.....1. 20		

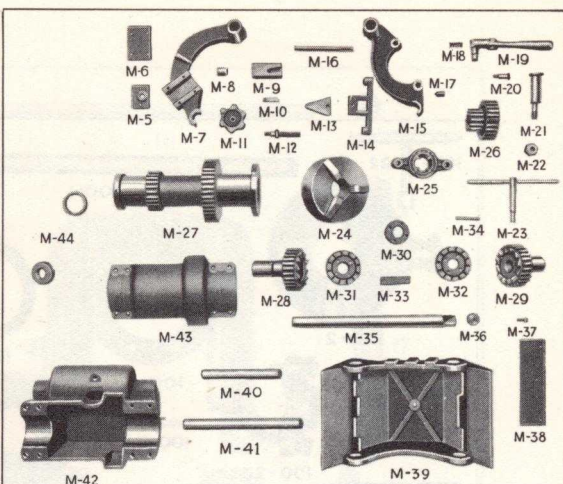
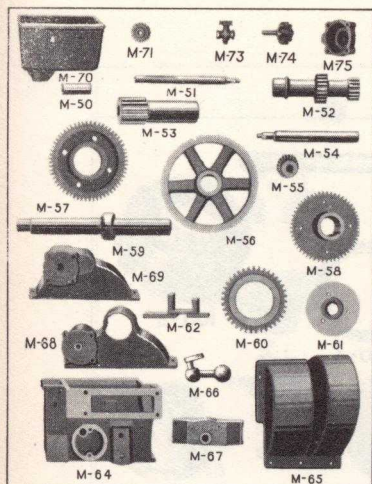
Not Illustrated

When ordering new parts always specify part number as well as the serial number of Drive. †These Gears must be furnished in pairs to insure teeth meshing properly. \*When ordering a motor give full details as to the character of current.









## Repair Parts No. 1000M

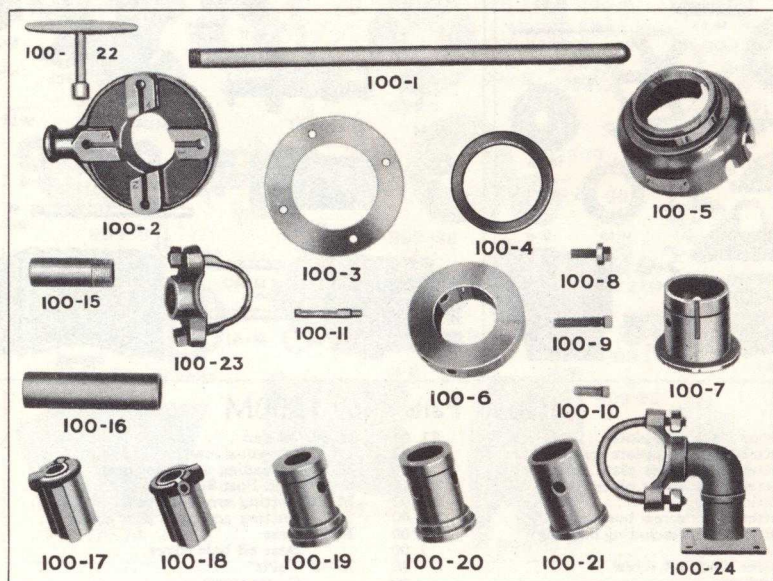
M-5	Cutter block end plate.....	\$1.00	M-39	Oil pan.....	\$24.00
	Cutter block end plate screw.....	.10		Oil pan screw.....	.20
M-6	Cutter block cover plate.....	.40	M-40	Threading arm sup. post.....	1.60
	Cutter block cover plate screw.....	.10		Sup. Post Screw.....	.05
M-7	Cutting arm.....	9.00	M-41	Cutting arm sup. post.....	1.60
M-8	Cutter block screw bushing.....	1.00		Cutting arm sup. post screw.....	.05
M-9	Cutter block (including bushing).....	5.00	M-42	Base.....	70.00
M-10	Cutter blade.....	2.00		Base oil hole cover.....	.40
	Cutter blade set screw.....	.30	M-43	Cover.....	*
M-11	Hand grip.....	.40		Cover screw.....	.20
M-12	Knife feed screw.....	.80	M-44	Bushing, each, (specify size).....	.70
M-13	Reamer blade.....	4.00		Bushing retaining screw.....	.30
M-14	Reamer bracket.....	2.20		Bushing retaining screw wrench.....	.20
	Reamer bracket screw.....	.05	M-51	Double pinion stud.....	1.60
M-15	Threading arm.....	5.00		Double pinion stud nut.....	.10
M-16	Die head supporting post.....	1.00	M-52	Double pinion.....	12.00
	Die head retaining spring.....	one of each	M-53	Driving pinion.....	12.00
	Die head retaining pin.....			Driving pinion key.....	.10
	Die head retaining screw.....		M-54	Driving pinion stud.....	2.00
M-17	Shifter lever pawl.....	.40		Driving pinion stud nut.....	.16
M-18	Shifter lever pawl spring.....	.10	M-55	Motor pinion for A. C. motor.....	4.00
M-19	Clutch shifter lever.....	2.20		Motor pinions for Un. motor, (pair).....	8.00
M-20	Clutch shifter lever bolt.....	.50	M-56	Motor gear.....	13.00
M-21	Gear Stud.....	4.00	M-57	Low speed gear.....	9.00
	Gear stud nut.....	.20	M-58	High speed gear.....	11.00
	Gear stud oil hole cover.....	.40	M-59	Driving shaft.....	6.80
M-23	Chuck wrench.....	5.00		Driving shaft washer screw.....	.10
M-24	Chuck—complete with wrench.....	76.00	M-60	Friction gear hand.....	12.00
	Chuck jaws—standard.....	22.50	M-61	Friction gear driving plate.....	7.00
	Chuck retaining screw.....	.10		Friction gear plate.....	4.50
M-25	1/4" Die head and Cover—No dies.....	5.00		Friction gear plate screw.....	.10
	3/8" Die head and Cover—No dies.....	5.00		Friction gear key.....	.20
	1/2" Die head and Cover—No dies.....	4.00	M-62	Gear shifter.....	3.20
	3/4" Die head and Cover—No dies.....	4.00		Gear shifter guide piece.....	.20
	1" Die head and Cover—No dies.....	4.40		Gear shifter roller.....	.40
	1 1/4" Die head and Cover—No dies.....	4.40		Gear shifter roller pin.....	.40
	1 1/2" Die head and Cover—No dies.....	4.80	M-64	Gear case.....	48.00
	2" Die head and Cover—No dies.....	5.00		Gear case conduit.....	.40
	1 Set 1/4", 3/8", 1/2" or 3/4" Carbon Steel dies.....	2.00	M-65	Gear case cover.....	9.60
	1 Set 1" or 1 1/2" High Speed Steel dies.....	4.00	M-66	Gear shifter lever and crank.....	3.20
	1 Set 1 1/2" or 2" High Speed Steel dies.....	5.00	M-67	Gear shifter frame.....	4.00
M-26	Intermediate gears.....	\$7.00	M-68	Motor Gear Guard.....	
M-27	Spindle.....	38.00		A. C. Motor.....	\$15.00
M-28	Rear clutch gear.....	10.00	M-69	Motor Gear guard—	
M-29	Front clutch gear.....	10.00		Universal motor.....	15.00
M-30	Clutch Collar.....	2.00	M-70	Oil pump reservoir.....	6.00
	Clutch Collar Screw.....	.10	M-71	Oil pump gear.....	3.00
	Clutch collar pin.....	.20	M-73	Oil cock.....	1.40
M-31	Rear clutch face.....	4.00		Oil pipe fittings.....	3.00
M-32	Front clutch face.....	4.00	M-74	Oil pump impeller.....	1.50
M-33	Gear separator plate.....	.30	M-75	Oil pump case.....	3.00
	Gear sep. plate screw.....	.10		Oil pump shaft.....	.30
M-36	Driving shaft washer.....	.40		Oil pump case screws.....	.10
M-38	Oil pan tie plate.....	.80		Cover oil cup.....	.30
	Oil pan tie plate screw.....	.10		Oil pump oil hole cover.....	.50
				Removable chip pan.....	\$ 2.80
				Table top.....	11.00
				Table leg (specify right or	
				left).....	2.30
				Double leg.....	7.20
				Leg bolt.....	.10
				Carriage bolt.....	.10
				Cable with connector and	
				plug.....	8.00
				Motor.....	150.00
				Motor attaching screw.....	.10
				Motor Brush, each.....	80
				Switch.....	5.00
				Switch attaching screws.....	.05

When ordering new parts always specify part number as well as serial number of machine shown on brass name plate.

\*Furnished only with Part M-42 base. Not furnished separately.







## Repair Parts No. 100

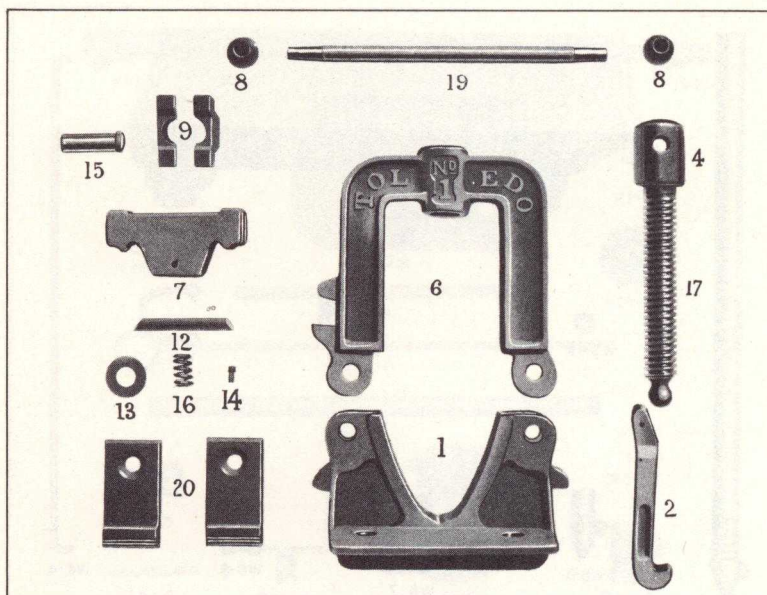
The No. 100 Tool is no longer manufactured. Parts, however, can be furnished on order, as listed.

Number	Price	Number	Price
Dies, complete set.....	\$10.00	Not illustrated	
Dies, single set.....	2.50	Die Retaining Spring Nail } one	
100-1 Handle.....	1.25	Die Retaining Spring..... } of	\$ .20
*100-2 Die Head.....	4.50	Die Retaining Pin..... } each	
100-3 Taper Pin Plate.....	3.00		
100-4 Retaining Ring.....	1.50	100-15 1" pipe, 3 1/2" long.....	.60
*100-5 Chuck Attaching Part.....	7.50	100-16 1 1/4" pipe, 6 1/4" long.....	.80
x100-6 Chuck.....	7.00	100-17 1/2" Bushing.....	2.60
x100-7 Chuck sleeve.....	5.00	100-18 3/4" Bushing.....	2.60
100-8 Special Flanged Machine Screws		100-19 1" Bushing.....	2.60
1/2" x 1 1/4" each.....	.60	100-20 1 1/4" Bushing.....	2.60
100-9 Special Set Screw, 1/2"x2 1/4", each.....	.50	100-21 1 1/2" Bushing.....	2.60
100-10 Special Set Screw, 1/2"x1 1/2", each.....	.40	100-22 Set Screw Wrench.....	.60
Special Set Screw, 1/2"x1 1/4", each....	.40	100-23 Pipe Saddle.....	2.00
100-11 Taper Pin, each.....	.40	100-24 Bench Clamp.....	2.75

\*When either one of these parts is required they must be ordered together, or the complete tool body and dies returned to us to be properly repaired or replaced. See instructions page 58. xWhen either one of these parts is required they must be ordered together, or the remaining good part returned to be fitted to the new part. When ordering repairs always specify the serial number which appears on the brass name plate of the tool.

Prices apply only for standard parts—other tool parts will be quoted on specially as occasion arises.





### Repair Parts Vises

	No. 1 Vise		No. 2 Vise	
	Part No.	Price	Part No.	Price
Base.....	1-1.....	\$1.50	2-1.....	\$5.00
Latch.....	1-2.....	.50	2-2.....	.60
Yoke.....	1-6.....	1.50	2-6.....	3.00
Crosshead.....	1-7.....	1.00	2-7.....	1.60
Balls, pair.....	1-8.....	.25	2-8.....	.25
Crosshead Clips, pair.....	1-9.....	.25	2-9.....	.40
Crosshead Pin.....	1-12.....	.20	2-12.....	.30
Crosshead Washers, pair.....	1-13.....	.10	2-13.....	.10
Crosshead Set Screw.....	1-14.....	.05	2-14.....	.05
Hinge Pin.....	1-15.....	.25	2-15.....	.30
Springs, pair.....	1-16.....	.25	2-16.....	.30
Screw and Screw Top.....	1-17.....	1.75	2-17.....	3.10
Handle.....	1-19.....	.40	2-19.....	.80
*Jaws, pair.....	1-20.....	3.50	2-20.....	5.00

\*When the jaws become dull they can be reconditioned at small expense if returned to us.

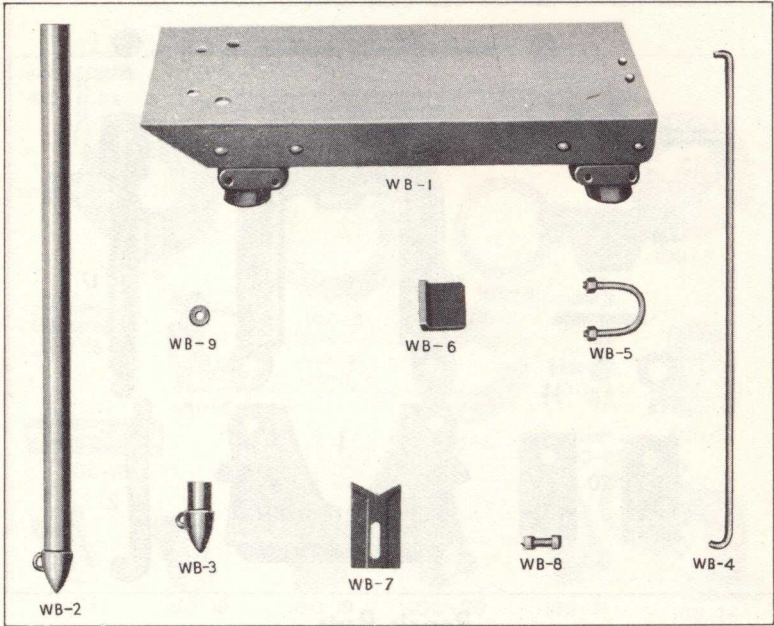
### Power Drive Helper Parts Not Illustrated

	Price		Price
Finger, each.....	\$ 3.00	Finger Screw, each.....	\$ .10
Finger Lug, each.....	.50	Steel Retaining Ball.....	.10
Bushing, each.....	.80	Spring Retaining Screw.....	.05
Chuck Wrench only.....	5.00	Ball Retaining Spring.....	.70
Chuck (including wrench).....	76.00	Headless Set Screw.....	.10
Yoke.....	18.00	Chuck Plate Nut, complete with Spring and Retaining Ball.....	5.90
Chuck Plate Nut.....	5.00	Yoke, complete with Fingers.....	25.40
Chuck Face Plate.....	14.00	Chuck, complete with Face Plate.....	90.60
Dowel Pin, each.....	.10	Pipe Support.....	15.00
Bench Clamp.....	2.75		
Chuck Plate Screw, each.....	.10		

When ordering Power Drive Helper repair parts always specify whether to be used with "TOLEDO" Standard or Universal Power Drive.



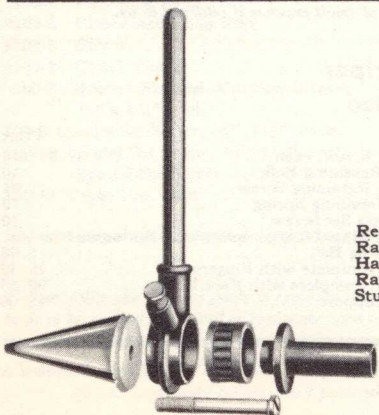




**Repair Parts**  
**No. 5 and No. 4 Portable Work Benches**

	No. 5 Work Bench Part No.	Price	No. 4 Work Bench Part No.	Price
Table Top, with top leg castings attached.....	WB-1.....	\$12.00	4B-1.....	\$ 9.00
Leg complete, with bottom leg casting.....	WB-2.....	1.50	4B-2.....	1.35
Bottom leg casting only.....	WB-3.....	.20	4B-3.....	.20
Tie Rod.....	WB-4.....	.28	4B-4.....	.28
Leg U Bolt.....	WB-5.....	.28	4B-5.....	.28
Pipe Rest Bracket.....	WB-6.....	.36	4B-6.....	.36
Pipe Rest.....	WB-7.....	.40	4B-7.....	.40
Pipe Rest Bolt.....	WB-8.....	.08	4B-8.....	.08
Pipe Rest Washer.....	WB-9.....	.04	4B-9.....	.04

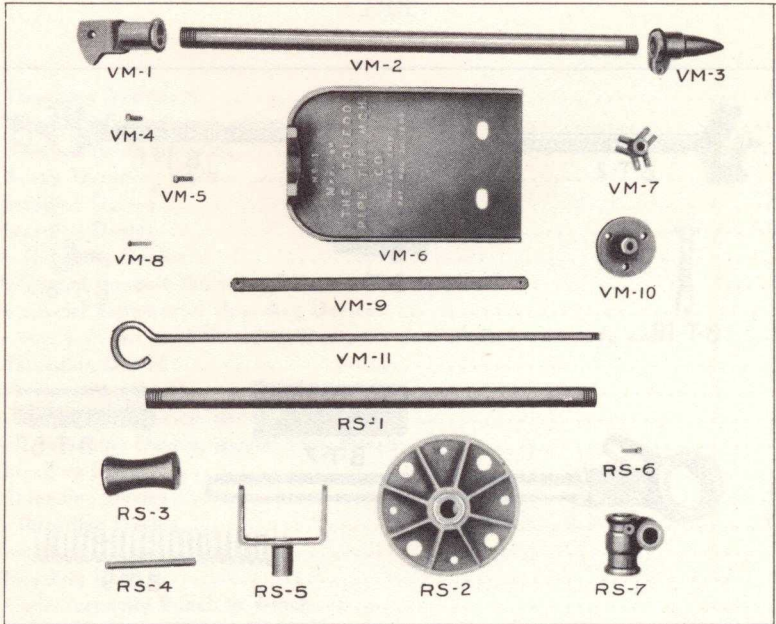
**Repair Parts**  
**Ratchet Pipe Reamer**



	Price
Reamer Head complete with the 3 Cutter Blades.....	\$ 3.00
Ratchet Handle, complete with Pawl.....	2.50
Hand Grip.....	
Ratchet Core.....	1.50
Stud.....	







Repair Parts  
Vise Mounts and Roller Support

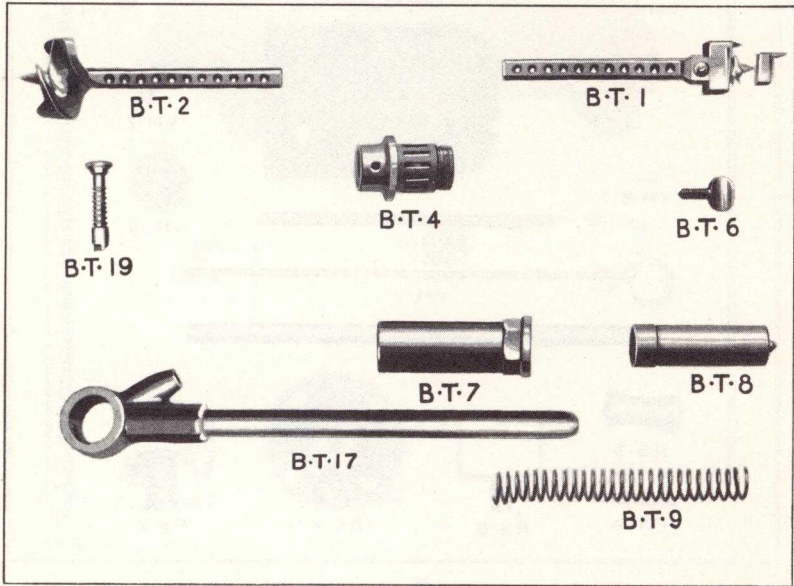
	Size No. 0		Size No. 1		Size No. 2	
	Number	Price	Number	Price	Number	Price
Top Leg Casting, each	VM-1	\$ .80	VM-1	\$1. 00	VM-1	\$1. 10
Pipe for Leg, each	VM-2	.70	VM-2	.85	VM-2	1. 00
Bottom Leg Casting, each	VM-3	.80	VM-3	1. 00	VM-3	1. 10
Set Screw, each	VM-4	.10	VM-4	.10	VM-4	.10
Brace Screw, each	VM-5	.20	VM-5	.20	VM-5	.20
Table Casting	VM-6	2. 50	VM-6	3. 75	VM-6	6. 00
Center Piece Casting	VM-7	.75	VM-7	.75	VM-7	.75
Rivet	VM-8	.05	VM-8	.05	VM-8	.05
Brace Piece	VM-9	.20	VM-9	.20	VM-9	.20
Floor Plate Casting	VM-10	.75	VM-10	.75	VM-10	.75
Rod and Hook	VM-11	.50	VM-11	.50	VM-11	.50

When Vise Mount Parts are ordered, the size Vise Mount for which the parts are required must be specified.

ROLLER SUPPORT

RS-1	Pipe Leg	\$ .85	RS-5	Roller Frame	\$ 1. 00
RS-2	Base Plate	1. 00	RS-6	Set Screw	.10
RS-3	Roller	.80	RS-7	Top Casting	1. 00
RS-4	Bolt	.20			





### Repair Parts Ratchet Boring Tool

Number		Price
	Ratchet Handle, Complete (not illustrated).....	3.00
BT-1	1¼ to 2½-inch Expansion Bit.....	9.00
	Extra Cutter Blade, only, 2½" or 2", each.....	1.50
	Extra Cutter Blade, only 1½", 1¼" or 1", each.....	1.20
	Cutter Blade Retaining Screw.....	.10
BT-2	Solid Bits, 2½-inch size.....	6.00
	2 -inch size.....	4.50
	1½-inch size.....	3.00
	1 -inch size.....	2.20
BT-4	Chuck.....	2.50
BT-6	Thumb Screw.....	.20
BT-7	Outer Barrel.....	4.00
BT-8	Inner Barrel.....	4.50
BT-9	Main Feed Spring.....	.50
BT-17	Ratchet Head and Handle, only.....	2.00
BT-19	Ratchet Pawl, complete.....	1.10

*NOTE—These Ratchet Boring Tool parts are subject to varying discounts, whereas the bits sell at list. Note carefully current price sheet.*



## CODE

No. 00 Threading Device .....	Abaiser
No. 11 Threading Device .....	Acerb
No. 30 3-way Threading Device .....	Acture
No. 31 3-way Threading Device .....	Adam
No. 0 Threading Device .....	Abacus
No. 1 Threading Device .....	Abandon
No. 1-A Threading Device .....	Abaft
No. 1-A Special Conduit Threading Device .....	Abrupt
No. 1-A Special Superheater Threading Device .....	Super
No. 1 or No. 1-A left hand Threading Device or parts thereof, add code word .....	Left
No. 10 Threading Device .....	Hail
No. 10-A Threading Device .....	Halter
No. 1½-R Threading Device, standard 8-thread .....	Abash
No. 1½-R Threading Device, special 11½ thread .....	Abase
No. 2 Threading Device .....	Abate
No. 25 Threading Device .....	Hamlet
No. 2½ Threading Device .....	Conjure
No. 3 Threading Device .....	Abbey
No. 4 Threading Device .....	Abbott
No. 40 Cutter, capacity 2-inch to 4-inch .....	Auto
No. 80 Cutter, capacity 4½-inch to 8-inch .....	Alien
No. 250 Cutter, capacity 2½-inch to 6-inch .....	Hay
No. 300 Cutter, capacity 4½-inch to 8-inch .....	Harem
No. 350 Cutter, capacity 7-inch to 10-inch .....	Hake
No. 400 Cutter, capacity 9-inch to 12-inch .....	Harvest
"Vosper" Cutter .....	Hawk
Power Drive with A. C. Motor, 60 cycle S. P. ....	Lard
Power Drive with A. C. Motor, 50 cycle S. P. ....	Ladder
Power Drive with A. C. Motor, 40 cycle S. P. ....	Lather
Power Drive with A. C. Motor, 30 cycle S. P. ....	Lance
Power Drive with A. C. Motor, 25 cycle S. P. ....	Loaf
Power Drive with D. C. Motor .....	Lint
110 Volt add code word .....	Despond
220 Volt add code word .....	Buoyant
Universal Power Drive with ½ H. P. 110 Volt Universal Motor .....	Log
Super Power Drive with 2½ H. P., 3 Phase, A. C. Motor .....	Lumber
Flange Facing Device .....	Flood
Power Drive Helper .....	Help
Special attachment for No. 1 Tool .....	Library
No. 1000M Power Threading and Cutting Machine .....	Sperm
No. 999 Portable Power Threading and Cutting Machine .....	Jewell
Pipe Support for No. 1000M or No. 999 Pipe Machine or Power Drive Helper .....	Sate
No. 100 P. D. Threading Device .....	Herring
Ratchet Pipe Reamer .....	Keel
No. 1 Vise .....	Harp
No. 2 Vise .....	Hasp
No. 5 Portable Work Bench .....	Hoard
No. 4 Portable Work Bench .....	Hod



## CODE—Continued

No. 18 Work Bench, with Chain Vise.....	Home
Pipe Bender.....	Bend
No. 9 Work Bench, with Chain Vise.....	Hum
No. 0 Vise Mount.....	Hazard
No. 1 Vise Mount.....	Hazel
No. 2 Vise Mount.....	Hearty
Roller Support.....	Health
Ratchet Boring Tool only, without bits.....	Hawser
Expansion Bit, 1¼ to 2½-inch.....	Hansom
2½-inch solid bit.....	Haze
2-inch solid bit.....	Heart
1½-inch solid bit.....	Heap
1-inch solid bit.....	Hectic
Ratchet Complete for No. 00 Threading Device.....	Abator
⅛" Die Head, complete with dies for No. 00 Threading Device.....	Abseond
¼" Die Head, complete with dies for No. 00 Threading Device.....	Acacia
⅜" Die Head, complete with dies for No. 00 Threading Device.....	Accede
½" Die Head, complete with dies for No. 00 Threading Device.....	Actor
¾" Die Head, complete with dies for No. 00 Threading Device.....	Addict
Set ⅛" R. H. Dies only for No. 00 Threading Device.....	Abderite
Set ¼" R. H. Dies only for No. 00 Threading Device, No. 1000M or No. 999.....	Abdest
Set ⅜" R. H. Dies only for No. 00, No. 30, No. 11 Threading Device, No. 1000M or No. 999.....	Abear
Set ½" R. H. Dies only for No. 00, No. 30, No. 31 or No. 11 Threading Device.....	Aberrant
Set ¾" R. H. Dies only for No. 00, No. 30, No. 31 or No. 11 Threading Device.....	Abet
Complete set R. H. Dies only for No. 00 Threading Device.....	Abhor
Ratchet complete for No. 11 Threading Device.....	Accost
⅜" Die Head complete with Dies for No. 11 Threading Device.....	Acknow
½" Die Head complete with Dies for No. 11 Threading Device.....	Accrue
¾" Die Head complete with Dies for No. 11 Threading Device.....	Acchime
1" Die Head complete with Die for No. 11 Threading Device.....	Acquit
1¼" Die Head complete with Dies for No. 11 Threading Device.....	Acid
Set 1" R. H. Dies only for No. 11 or No. 31 Threading Device.....	Addle
Set 1¼" R. H. Dies only for No. 11 Threading Device.....	Apostle
Complete set R. H. Dies only for No. 11 Threading Device.....	Apron
Complete set R. H. Dies for No. 30 Threading Device.....	Arab
Complete set R. H. Dies for No. 31 Threading Device.....	Arctic
Set ⅛" R. H. Dies for No. 0 Threading Device.....	Abdalla
Set ¼" and ⅜" R. H. Dies for No. 0 Threading Device.....	Abdal
Set ½" and ¾" R. H. Dies for No. 0 Threading Device.....	Abdicate
Complete Set Right Hand Dies for No. 0 Threading Device.....	Abdomen
Set ⅛" Left Hand Dies for No. 0 Threading Device.....	Abode
Set ¼" Left Hand Dies for No. 0 Threading Device.....	Abolish
Set ⅜" Left Hand Dies for No. 0 Threading Device.....	Abraide
Set ½" Left Hand Dies for No. 0 Threading Device.....	Abduce
Set ¾" Left Hand Dies for No. 0 Threading Device.....	Abbeam
Complete Set Left Hand Dies for No. 0 Threading Device.....	Abreast
Set 1" Dies for No. 1 and No. 1-A or No. 100 Threading Device.....	Abide
Set 1¼" Dies for No. 1 and No. 1-A or No. 100 Threading Device.....	Ability



## CODE—Continued

Set 1½" Dies for No. 1 and No. 1-A or No. 100 Threading Device .....	Above
Set 2" Dies for No. 1 and No. 1-A or No. 100 Threading Device .....	Abrogate
No. 1 or No. 1-A Dies for Threading Brass Pipe add code word .....	Brass
Complete Set Dies for No. 1, No. 1-A or No. 100 Threading Device .....	Absolute
Set R. H. Dies for No. 10 or No. 10-A Threading Device .....	Hector
Set 1" L. H. Dies for No. 10 or No. 10-A Threading Device .....	Hedge
Set 1¼" L. H. Dies for No. 10 or No. 10-A Threading Device .....	Heel
Set 1½" L. H. Dies for No. 10 or No. 10-A Threading Device .....	Helmet
Set 2" L. H. Dies for No. 10 or No. 10-A Threading Device .....	Hemlock
Complete Set L. H. Dies for No. 10 or No. 10-A Threading Device .....	Herb
Set 2½" Dies, 8-pitch for No. 1½-R Threading Device .....	Absurd
Set 3" Dies, 8-pitch for No. 1½-R Threading Device .....	Abundant
Complete Set Dies for 1½-R Threading Device of 8-pitch .....	Air
Set 2" 11½ Tubing Dies for 1½-R Threading Device .....	Absolve
Set 2½" 11½ Tubing Dies for 1½-R Threading Device .....	Abstain
Set 3" 11½ Tubing Dies for 1½-R Threading Device .....	Abstinent
Complete Set Dies for No. 1½-R Threading Device of 11½-pitch .....	Abstruse
Set 2½" Dies for No. 2 Threading Device .....	Abuse
Set 3" Dies for No. 2 Threading Device .....	Accord
Set 3½" Dies for No. 2 Threading Device .....	Acme
Set 4" Dies for No. 2 Threading Device .....	Acorn
Complete Set Dies for No. 2 Threading Device .....	Action
Set Dies for No. 25 Threading Device .....	Hemp
Set 4½" Dies for No. 2½ or No. 3 Threading Device .....	Adapt
Set 5" Dies for No. 2½ or No. 3 Threading Device .....	Adequate
Set 6" Dies for No. 2½ or No. 3 Threading Device .....	Adhere
Complete Set R. H. Dies for No. 2½ Threading Device .....	Connive
Set 7" Dies for No. 3 Threading Device .....	Advance
Set 8" Dies for No. 3 Threading Device .....	Afflict
Complete Set Dies for No. 3 Threading Device .....	Assured
Set 9" Dies for No. 4 Threading Device .....	Afford
Set 10" Dies for No. 4 Threading Device .....	Afraid
Set 12" Dies for No. 4 Threading Device .....	After
Complete Set Dies for No. 4 Threading Device .....	Agent
(See note bottom of page 25).	
Set 10" Plain Milling Dies for No. 4 Threading Device .....	Against
Set 12" Plain Milling Dies for No. 4 Threading Device .....	Agate
†*Cutter Blades, each for No. 40 .....	Avian
Cutter Blades, complete set for No. 40 .....	Avon
†*Cutter Blades, each for No. 80 .....	Alley
Cutter Blades, complete set for No. 80 .....	Alva
*Cutter Blades, each for Nos. 250, 300, 350 and 400 .....	Haven
Cutter Blades, complete set for Nos. 250, 300, 350 and 400 .....	Havoc
Cutter Blades, per pair for Vosper Pipe Cutter .....	Harbor
Guide Shoes, per pair for Vosper Pipe Cutter .....	Haggle
Set ½" R. H. Dies for No. 1000M or No. 999 Pipe Machine .....	Cimon
Set ¾" R. H. Dies for No. 1000M or No. 999 Pipe Machine .....	Cinch
Set 1" R. H. Dies for No. 1000M or No. 999 Pipe Machine .....	Cinder

\*When ordering single cutter blades always specify whether straight or bevel edge required.

†When single blades are required the balance of the set must be returned to have the desired blades matched in.



## CODE—Continued

Set 1 $\frac{1}{4}$ " R. H. Dies for No. 1000M or No. 999 Pipe Machine.....	Cider
Set 1 $\frac{1}{2}$ " R. H. Dies for No. 1000M or No. 999 Pipe Machine.....	Churn
Set 2" R. H. Dies for No. 1000M or No. 999 Pipe Machine.....	Chute
Complete Set $\frac{1}{2}$ " to 2" R. H. Dies for No. 1000M or No. 999 Machine.....	Alarm
Cutter Blade for No. 1000M Pipe Machine.....	Keen
*Cutter Blade, for No. 999 Pipe Machine.....	Jib
Cutter Blades, per set of four, for No. 999 Pipe Machine.....	Jitney
$\frac{1}{4}$ " Die Head Complete with Dies for No. 1000M Pipe Machine.....	Sarsar
$\frac{3}{8}$ " Die Head Complete with Dies for No. 1000M Pipe Machine.....	Sarto
$\frac{1}{2}$ " Die Head Complete with Dies for No. 1000M Pipe Machine.....	Saint
$\frac{3}{4}$ " Die Head Complete with Dies for No. 1000M Pipe Machine.....	Sair
1" Die Head Complete with Dies for No. 1000M Pipe Machine.....	Salad
1 $\frac{1}{4}$ " Die Head Complete with Dies for No. 1000M Pipe Machine.....	Saline
1 $\frac{1}{2}$ " Die Head Complete with Dies for No. 1000M Pipe Machine.....	Salt
2" Die Head Complete with Dies for No. 1000M Pipe Machine.....	Samite
$\frac{1}{2}$ " Die Head Complete with Dies for No. 999 Pipe Machine.....	Jade
$\frac{3}{4}$ " Die Head Complete with Dies for No. 999 Pipe Machine.....	Jail
1" Die Head Complete with Dies for No. 999 Pipe Machine.....	Jape
1 $\frac{1}{4}$ " Die Head Complete with Dies for No. 999 Pipe Machine.....	Jarl
1 $\frac{1}{2}$ " Die Head Complete with Dies for No. 999 Pipe Machine.....	Janus
2" Die Head Complete with Dies for No. 999 Pipe Machine.....	Jaunt
Are holding shipment for.....	Base
Can ship all but.....	Bayonet
Can ship immediately.....	Bear
Can ship in time mentioned.....	Beggar
Did you ship as promised.....	Benefit
Duplicate our (my) order of (number).....	Beware
F. O. B. destination.....	Blank
F. O. B. Toledo.....	Blotting
F. O. B. all points where freight does not exceed \$2.50 per cwt.....	Burnish
Has our (my) order of..... been shipped.....	Cannor
Have telegraphed tracer to locate shipment and expedite delivery.....	Celebrity
How soon after receipt of order can you furnish.....	Chalky
Increase our (my) order of.....	Comfort
Rush delivery in every manner possible.....	Commend
Send tracer for shipment of.....	Condemn
Ship C. O. D.....	Correct
Ship by Express.....	Counter
Ship by fast freight and hurry through by wire tracer.....	Debate
Ship by freight.....	Desperate
Ship Sight Draft attached to Bill of Lading.....	Discourse
Were shipped by.....	Eclipse
When will you ship our (my) order.....	Edify
Will ship immediately.....	Educate
Will ship in time mentioned.....	Egg
Will ship quantity of machines specified after this code word immediately.....	Egypt

\*When ordering single cutter blades always specify whether "straight" or "bevel" edge required.



## CODE—Continued

Will ship quantity of machines specified after this code word on date indicated.....Elect  
 Wire acceptance of order.....Employ  
 Your entire order shipped by freight.....Errand  
 Your order of.....shipped via.....Excel  
 Your order shipped.....Factor

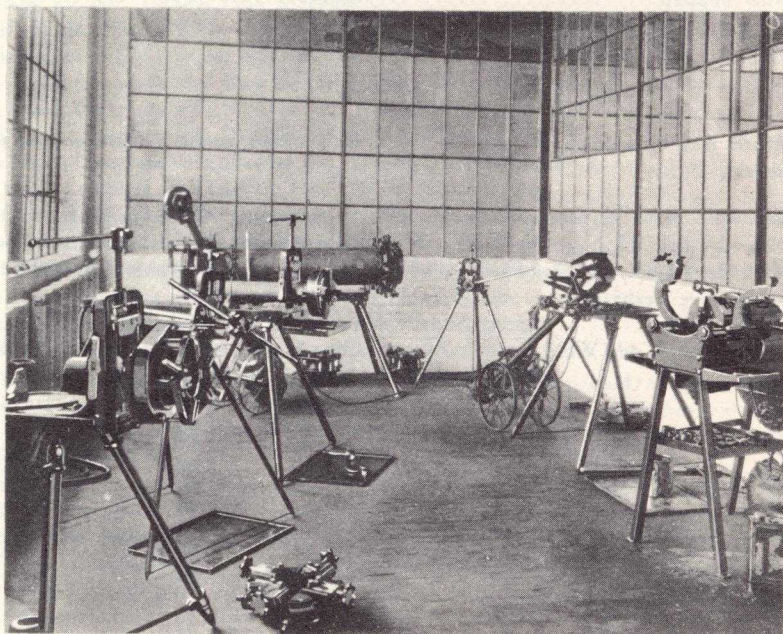
## NUMBERS

These figures may be used in giving quantities, order numbers, amounts in dollars, weights, car numbers, etc.

To make a word above 99, use the code as follows: For example, 142—14 hol, 2 hef—"holhef."  
 Or 1425—14 hol, 25 hus—"holhus." Or 14,254—14 hol, 25 hus, 4 hek—"holhushek."  
 Or, 142,547—14 hol, 25 hus, 47 ile—"holhusile." Or say car number 100,009—10 hex,  
 00 hac, 09 hec—"hexhachec."

Code Word	Code Word	Code Word
0.....Hab	27.....lba	64.....Kab
00.....Hac	28.....lbe	65.....Kac
01.....Haf	29.....lbo	66.....Kaf
02.....Hak	30.....lbu	67.....Kal
03.....Hal	31.....lca	68.....Kan
04.....Ham	32.....lco	69.....Kap
05.....Hap	33.....lde	70.....Kar
06.....Har	34.....ldo	71.....Keb
07.....Hav	35.....ldu	72.....Ked
08.....Heb	36.....lfa	73.....Kef
09.....Hec	37.....lfe	74.....Keh
1.....Hed	38.....lfo	75.....Kek
2.....Hef	39.....lga	76.....Kel
3.....Heg	40.....lge	77.....Kem
4.....Hek	41.....lgo	78.....Kep
5.....Hel	42.....lha	79.....Kes
6.....Hep	43.....lho	80.....Ket
7.....Hes	44.....lhu	81.....Kew
8.....Het	45.....lko	82.....Kob
9.....Hev	46.....lla	83.....Kod
10.....Hex	47.....lle	84.....Koh
11.....Hoc	48.....llo	85.....Kol
12.....Hof	49.....lma	86.....Kom
13.....Hok	50.....lmo	87.....Kon
14.....Hol	51.....lna	88.....Kos
15.....Hom	52.....lne	89.....Kov
16.....Hon	53.....lno	90.....Kub
17.....Hos	54.....lpa	91.....Kuc
18.....Hov	55.....lpo	92.....Kud
19.....Huc	56.....lqu	93.....Kuf
20.....Hud	57.....lro	94.....Kul
21.....Huf	58.....lsa	95.....Kum
22.....Hul	59.....lso	96.....Kun
23.....Hun	60.....lta	97.....Kup
24.....Hup	61.....lto	98.....Kut
25.....Hus	62.....lwa	99.....Kuv
26.....Hux	63.....lwo	



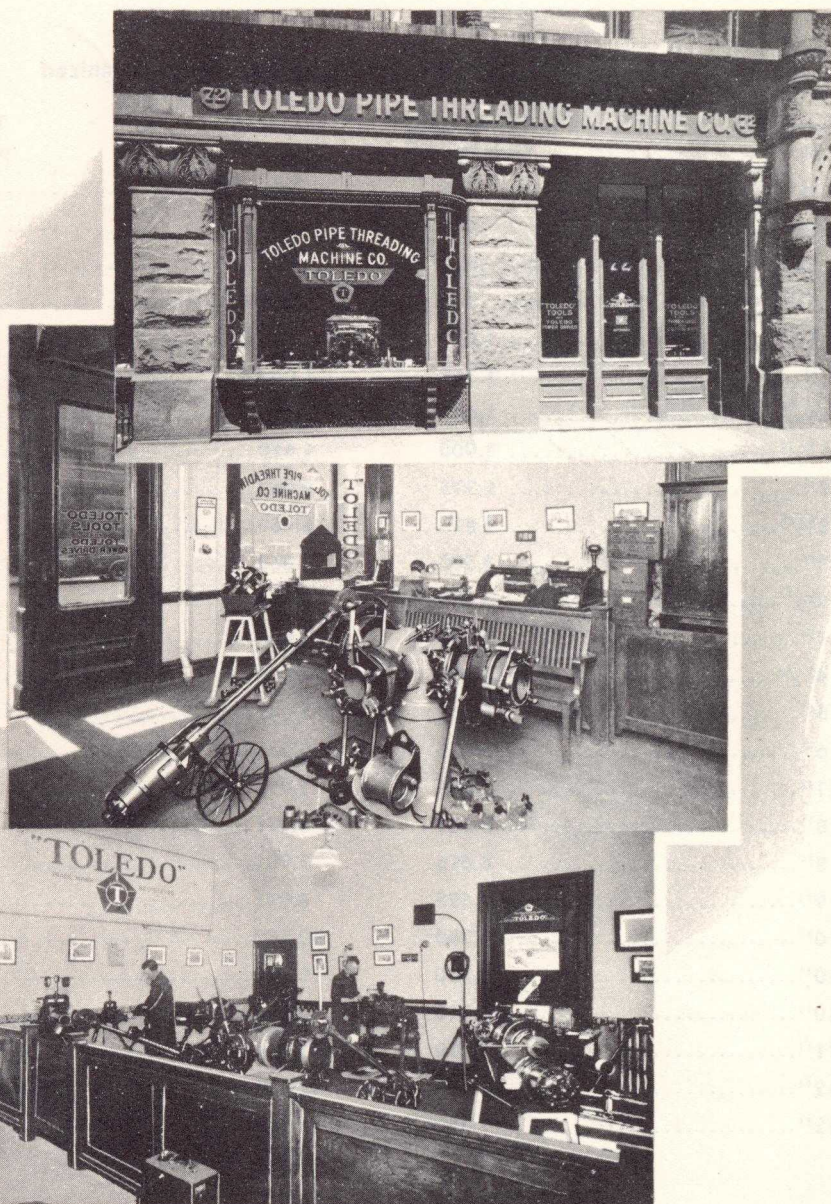


A complete line of "TOLEDO" equipment is on display at our factory display room at 1445 Summit Street, Toledo, Ohio

Here, you will always find a hearty welcome and we will gladly demonstrate to you any "TOLEDO" equipment in which you may be interested

You are cordially invited to call any time you may be in our vicinity





*Our New York office and display room at 72 Lafayette Street, New York City, is in charge of our Eastern Sales Manager assisted by competent representatives.*

*Here, the complete "TOLEDO" line is on display and demonstrations will be gladly given and service calls taken care of promptly and courteously.*





STANDARD PIPE INFORMATION—Black and Galvanized

Nominal Size	External Diameter	Internal Diameter	Threads per inch
1/8"	.405	.269	27
1/4"	.540	.364	18
3/8"	.675	.493	18
1/2"	.840	.622	14
3/4"	1.050	.824	14
1"	1.315	1.049	11 1/2
1 1/4"	1.660	1.380	11 1/2
1 1/2"	1.900	1.610	11 1/2
2"	2.375	2.067	11 1/2
2 1/2"	2.875	2.469	8
3"	3.500	3.068	8
3 1/2"	4.000	3.548	8
4"	4.500	4.026	8
4 1/2"	5.000	4.506	8
5"	5.563	5.047	8
6"	6.625	6.065	8
7"	7.625	7.023	8
8"	8.625	8.071	8
8"	8.625	7.981	8
9"	9.625	8.941	8
10"	10.750	10.192	8
10"	10.750	10.136	8
10"	10.750	10.020	8
11"	11.750	11.000	8
12"	12.750	12.090	8
12"	12.750	12.000	8

Lithographed in U.S.A.









# STANDARD TEST INFORMATION - 2000 and 2001

Model	2000	2001	2002
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101	101	101	101
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199	199	199	199









*GENUINE "TOLEDO" TRADE-MARKED  
tools are made only by*

**THE TOLEDO PIPE THREADING MACHINE CO.  
TOLEDO, OHIO, U. S. A.**